JULY 1983 NUMBER 467 -- Part II

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Solar-Geophysical Data comprehensive reports

Data for January 1983, November 1980 & Miscellanea

Explanation of Data Reports Issued as Number 462 (Supplement) February 1983

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Solar - Geophysical Data

Part II (Comprehensive Reports)

NO. 467 JULY 1983

DATA FOR
JANUARY 1983
NOVEMBER 1980

Michael A. Chinnery, Director
NATIONAL GEOPHYSICAL DATA CENTER
BOULDER, COLORADO

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SOLAR-GEOPHYSICAL DATA

No. 467

Issued in two parts

Helen E. Coffey, Editor

Joe H. Allen, Chief
Solar-Terrestrial Physics Division

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*Solar radio noise bursts observed at Athens, Learmonth, Manila, Palehua and Sagamore Hill during Aug 1979 through Oct 1980 appear in Solar-Geophysical Data, Number 461, Part II, pages 103-235.

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SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1983

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
01	208	VORO	44	NS	0000.0E		240.0D				
	127	TORN	43	NS	0826.0		174.0		2.0		VO
	245	LEAR	43	NS	0827.8	0900.8	33.3	38.0			QL=3 ST=2 TYP=1
	260	ONDR	44	NS	0848.0E	1308.0	312.0D				
	245	LEAR	8	S	0006.3	0006.5	.3	34.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0011.8	0012.5	1.0	18.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	0041.0	0042.6	6.0	40.0	11.0		
	2000	TYKW	45	C	0041.0	0043.3	7.0	27.0	12.0		
	500	HIRA	7	C	0041.3	0041.5	3.0	40.0	15.0		O
	610	LEAR	8	S	0041.3	0042.1	1.0	47.0			QL=6 ST=2 TYP=3
	9400	TYKW	45	C	0041.5	0043.3	4.5	68.0	22.0		
	410	LEAR	8	S	0041.6	0042.1	1.0	22.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0041.8	0042.5	3.3	39.0			QL=6 ST=2 TYP=3
	8800	LEAR	47	GB	0041.8	0043.1	3.5	72.0			QL=6 ST=2 TYP=5
	4995	LEAR	4	S/F	0041.8	0044.3	3.2	32.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	0042.0	0044.6	12.0	17.0	5.0		
	1415	LEAR	4	S/F	0042.0	0044.3	3.6	30.0			QL=6 ST=2 TYP=3
	8800	PALE	47	GB	0042.1	0043.1	3.2	72.0			QL=6 ST=2 TYP=5
	4995	PALE	4	S/F	0042.1	0043.5	3.2	29.0			QL=6 ST=2 TYP=3
	1415	PALE	4	S/F	0042.1	0044.0	3.2	23.0			QL=6 ST=2 TYP=3
	15400	PALE	47	GB	0042.1	0044.3	3.2	52.0			QL=6 ST=2 TYP=5
	15400	LEAR	4	S/F	0042.3	0043.8	3.0	43.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	0046.0		40.0	6.0	3.0		
	3750	TYKW	29	PBI	0047.0		40.0	4.0	2.0		
	2000	TYKW	29	PBI	0048.0		40.0	2.0	1.0		
	245	LEAR	8	S	0203.5	0203.6	.8	13.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0210.0	0210.6	5.0	1.5	.5		
	2000	TYKW	5	S	0210.0	0210.7	4.0	2.0	.7		
	410	PALE	47	GB	0210.1	0210.3	1.2	90.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	0210.1	0210.3	.7	63.0			QL=6 ST=2 TYP=5
	245	PALE	8	S	0211.8	0212.0	.5	47.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0211.8	0212.0	.5	40.0			QL=6 ST=2 TYP=3
	100	HIRA	46	C	0321.5	0321.8	1.1	520.0	95.0		O
	3750	TYKW	21	GRF	0334.0	0420.0	80.0	2.0	1.0		
	2000	TYKW	21	GRF	0334.0	0420.0	80.0	1.5	.7		
	17000	NOBE	1	S	0401.4	0401.9	1.5	16.0			L
	2000	TYKW	31	ABS	0454.0	0520.0	80.0	-3.0	-1.5		
	3750	TYKW	31	ABS	0454.0	0525.0	80.0	-3.0	-1.5		
	9400	TYKW	32	ABS	0500.0	0522.0	50.0	-3.0	-1.5		
	100	HIRA	42	SER	0524.1	0529.7	14.0	500.0			WL
	245	LEAR	8	S	0619.3	0619.5	1.5	22.0			QL=6 ST=3 TYP=3
	204	IZMI	5	S	0910.0	0911.3	2.8	96.0	50.0		
	113	POTS	42	SER	0913.2	0913.5	3.4	120.0	2.0		III
	1470	POTS	4	S/F	0942.0	0942.0	13.0	28.0			
	536	ONDR	2	S/F	0942.0	0943.5	3.0	8.0	3.0		
	9400	POTS	20	GRF	0942.0	0947.5	18.0	10.0			
	950	GORK	4	S/F	0942.2	0943.1	3.8	113.0			
	3000	POTS	4	S/F	0942.2	0944.8	13.0	26.0			
	2950	GORK	45	C	0942.3	0943.2	2.9	17.6			
	1415	ATHN	4	S/F	0942.3	0943.3	3.5	40.0			QL=6 ST=2 TYP=3
	2950	GORK			0942.3	0944.4		28.0			
	2695	ATHN	4	S/F	0942.3	0945.0	3.5	33.0			QL=2 ST=2 TYP=3
	6100	KISV	23	GRF	0942.4	0944.9	8.0	7.0			
	808	ONDR	1	S	0942.5	0943.5	1.5	32.0	17.0		
	3000	IZMI	7	C	0942.5	0945.0	3.7	24.0	18.0		
	650	GORK	4	S/F	0942.6	0943.1	1.1	16.0	9.0		
	9100	GORK	20	GRF	0943.7	0947.1	13.3	8.0			
	2950	GORK	29	PBI	0945.2	0945.2	18.0	4.4			
	536	ONDR	1	S	1042.0	1042.0	.8	10.0			
	536	ONDR	45	C	1135.0	1135.5	1.0	57.0	52.0		
	113	POTS	4	S/F	1144.0	1145.2	1.7	450.0	60.0		III
	127	TORN	8	S	1150.2U		2.0U				DISTURBED
	536	ONDR	1	S	1307.5	1307.8	.5	364.0	201.0		
	410	SGMR	8	S	1521.5	1522.1	.6	30.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	1853.0	1854.5	7.0	2.4	0.9		
	1415	LEAR	4	S/F	2255.3	2258.3	4.3	11.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	2256.1	2257.8	3.9	10.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	2256.1	2257.8	5.7	8.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	2256.6	2258.3	3.0	22.0			QL=6 ST=2 TYP=3
	500	HIRA	1	S	2257.0	2258.1	2.4	10.0	5.0		WR
	100	HIRA	42	SER	2257.0	2302.2	15.0	47.0			O

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
01	245	LEAR	8	S	2257.1	2257.3	.5	41.0			QL=6 ST=2 TYP=3
	610	LEAR	4	S/F	2257.1	2257.8	2.5	11.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	2320.0	2326.2	13.0	10.0	3.0		
02	245	LEAR	43	NS	0519.1	0519.1	4.0	17.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	0710.1	0752.1	124.7	41.0			QL=6 ST=2 TYP=1
	245	LEAR	8	S	0058.5	0058.6	.1	13.0			QL=6 ST=2 TYP=3
	2000	TYKW	5	S	0155.0	0158.7	7.0	20.0	8.0		
	3750	TYKW	45	C	0155.0	0159.1	10.0	27.0	9.0		
	1000	TYKW	5	S	0156.0	0158.8	9.0	12.0	3.5		
	2695	LEAR	4	S/F	0156.1	0159.0	6.7	23.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0156.1	0159.0	6.7	21.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0157.0	0159.5	5.0	13.0	8.0		
	1415	LEAR	4	S/F	0157.1	0158.6	4.5	13.0			QL=6 ST=2 TYP=3
	500	HIRA	7	C	0157.3	0157.6	4.0	25.0	6.0		0
	8800	LEAR	4	S/F	0157.3	0158.3	4.3	17.0			QL=6 ST=2 TYP=3
	610	LEAR	4	S/F	0157.3	0159.1	4.3	33.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0157.3	0159.1	2.2	139.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	0157.3	0159.6	3.8	36.0			QL=6 ST=2 TYP=3
	200	HIRA	46	C	0157.6	0158.3	3.3	77.0	16.0		0
	4995	PALE	4	S/F	0157.6	0159.1	2.4	21.0			QL=6 ST=2 TYP=3
	410	PALE	8	S	0157.8	0158.3	.7	26.0			QL=6 ST=2 TYP=3
	208	VORO	7	C	0158.0	0159.0	3.0	25.0			
	1415	PALE	8	S	0158.1	0158.6	.7	15.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	0158.1	0159.1	1.4	130.0			QL=6 ST=2 TYP=5
	8800	PALE	8	S	0158.3	0158.5	.3	13.0			QL=6 ST=2 TYP=3
	610	PALE	8	S	0158.3	0159.1	1.3	34.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	0202.0		35.0	8.0	4.0		
	2000	TYKW	29	PBI	0202.0		15.0	3.0	1.5		
	3750	TYKW	29	PBI	0205.0		50.0	4.0	2.0		
	245	LEAR	8	S	0213.0	0213.1	.1	22.0			QL=6 ST=2 TYP=3
	245	PALE	8	S	0225.0	0225.0	.1	17.0			QL=5 ST=2 TYP=3
	610	LEAR	8	S	0225.0	0225.1	.1	5.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0225.0	0225.1	.1	15.0			QL=6 ST=2 TYP=3
	410	LEAR	47	GB	0225.0	0225.1	.1	97.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	0225.0	0225.1	.1	51.0			QL=5 ST=2 TYP=5
	245	LEAR	8	S	0239.8	0240.0	.3	18.0			QL=6 ST=2 TYP=3
	100	HIRA	8	S	0417.3	0417.5	.4	390.0			WL
	3750	TYKW	5	S	0454.0	0454.2	1.0	1.5	.5		
	245	LEAR	4	S/F	0606.1	0606.1	40.0	19.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0606.1	0606.1	1.0	3.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0628.6	0629.1	1.0	34.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0628.8	0629.1	.5	3.0			QL=6 ST=2 TYP=3
	260	ONDR	41	F	1004.0	1018.0	21.0	15.0			
	410	LEAR	8	S	1017.1	1017.3	.5	17.0			QL=5 ST=2 TYP=3
	260	ONDR	41	F	1149.5	1155.5	6.0	8.0			
	430	KRAK	8	S	1154.8	1155.0	.4	46.0			
	260	ONDR	41	F	1207.0	1207.0	4.0	7.0			
	260	ONDR	41	F	1241.8	1249.0	39.0	6.0			
	2800	OTTA	240	R	1505.0	1520.0	15.0	2.8	1.4		
	245	SGMR	47	GB	1541.8	1542.1	.5	84.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	1848.3	1848.5	.5	93.0			QL=6 ST=2 TYP=5
03	245	LEAR	43	NS	2312.0	0629.8	702.0	26.0			QL=6 ST=2 TYP=1
	3750	TYKW	20	GRF	0100.0	0120.0	110.0	2.0	1.0		
	245	LEAR	8	S	0202.5	0202.6	.1	10.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0224.8	0225.0	.3	19.0			QL=2 ST=2 TYP=3
	3750	TYKW	5	S	0310.5	0310.7	3.0	2.0	.5		
	2000	TYKW	5	S	0310.5	0310.7	1.0	2.0	.5		
	245	LEAR	8	S	0458.1	0458.3	.4	10.0			QL=5 ST=2 TYP=3
	17000	NOBE	28	PRE	0551.1	0558.5	7.4	48.0			L
	245	LEAR	8	S	0557.8	0558.0	.3	25.0			QL=5 ST=2 TYP=3
	17000	NOBE	47	GB	0558.5	0607.1	30.0	4820.0			L
	245	LEAR	8	S	0605.6	0605.6	.2	15.0			QL=5 ST=2 TYP=3
	245	LEAR	8	S	0620.3	0620.5	.3	13.0			QL=5 ST=2 TYP=3
	17000	NOBE	29	PBI	0628.5	0628.5	67.0D	250.0			O-R
	245	LEAR	47	GB	0650.6	0651.0	.5	61.0			QL=5 ST=2 TYP=5
	245	LEAR	8	S	0703.1	0703.1	.2	13.0			QL=5 ST=2 TYP=3
	245	LEAR	8	S	0724.3	0724.3	.2	28.0			QL=5 ST=2 TYP=3
	245	LEAR	8	S	0807.3	0807.5	.3	20.0			QL=5 ST=2 TYP=3
	245	LEAR	8	S	0849.8	0850.0	.3	13.0			QL=5 ST=2 TYP=3

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
03	245	LEAR	8	S	0911.3	0911.3	.2	15.0			QL=5 ST=2 TYP=3
	245	LEAR	8	S	0919.5	0919.6	.1	15.0			QL=5 ST=2 TYP=3
	260	ONDR	41	F	0952.0	0953.0	48.0	3.0			
	245	LEAR	8	S	1039.5	1039.6	.1	10.0			QL=5 ST=2 TYP=3
	245	LEAR	8	S	1045.1	1045.3	.2	15.0			QL=5 ST=2 TYP=3
	260	ONDR	8	S	1055.0	1055.0	.1	21.0D			
	260	ONDR	41	F	1209.0	1209.0	20.0	6.0			
	430	KRAK	8	S	1212.2	1212.4	.3	5.0			
	260	ONDR	41	F	1304.0	1311.5	11.0	14.0			
	810	KRAK	8	S	1311.0	1311.1	.1	10.0			
	810	KRAK	2	S/F	1314.0	1314.3	.7	14.0	6.0		
[	930	BORD	46	C	1314.4	1314.6	.6	19.0	2.0		
	3750	TYKW	5	S	2349.0	2349.5	1.5	1.5	.5		
04	17000	NOBE	1	S	0053.0	0053.4	2.0	53.0			R
[	245	LEAR	8	S	0751.8	0752.0	.3	44.0			QL=6 ST=2 TYP=3
[	410	LEAR	8	S	0751.8	0752.0	.3	3.0			QL=6 ST=2 TYP=3
	260	ONDR	1	S	0840.0	0840.0	.6	22.0			
	260	ONDR	8	S	0932.0	0932.0	.1	8.0			
	260	ONDR	8	S	0940.5	0940.5	.1	7.0			
[	33	UPIC	2	S/F	0951.1	0951.5	.8				
[	29	UPIC	2	S/F	0951.6	0952.0	.6				
[	260	ONDR	41	F	1115.0	1115.0	2.0	13.0			
[	536	ONDR	41	F	1115.5	1116.1	.6	14.0			
	260	ONDR	41	F	1205.0	1209.5	45.0	13.0			
[	260	ONDR	8	S	1258.0	1258.0	.5	131.0			
[	536	ONDR	8	S	1258.5	1258.5	.1	18.0			
	260	ONDR	8	S	1323.0	1323.5	1.0	3.0			
	2800	OTTA	1	S	2045.0	2046.0	4.0	2.4	0.8		
05	208	VORO	44	NS	0000.0E		240.0D		1.0		
[	260	ONDR	43	NS	0929.0		260.0D				
[	245	SGMR	43	NS	1238.0	1643.5	501.0D	69.0			QL=6 ST=2 TYP=1
[	245	PALE	43	NS	1734.0	1835.6	606.0	53.0			QL=6 ST=2 TYP=1
[	245	LEAR	43	NS	2204.0	0725.8	770.0D	29.0			QL=6 ST=2 TYP=1
	3750	TYKW	20	GRF	0050.0	0110.0	90.0	2.0	1.0		
[	3750	TYKW	21	GRF	0250.0	0333.0	110.0	4.0	2.0		
[	9400	TYKW	20	GRF	0252.0	0345.0	120.0	6.0	3.0		
[	2000	TYKW	20	GRF	0253.0	0340.0	110.0	2.0	1.0		
	3750	TYKW	20	GRF	0350.0	0403.0	50.0	2.0	1.0		
[	2000	TYKW	20	GRF	0450.0	0510.0	60.0	1.5	.7		
[	3750	TYKW	20	GRF	0500.0	0521.0	45.0	2.5	1.0		
	17000	NOBE	20	GRF	0659.3	0701.7	27.0	29.0			R
[	245	LEAR	47	GB	0720.8	0721.0	.3	66.0			QL=6 ST=2 TYP=5
[	610	LEAR	8	S	0720.8	0721.0	.3	5.0			QL=6 ST=2 TYP=3
[	410	LEAR	8	S	0720.8	0721.0	.3	7.0			QL=6 ST=2 TYP=3
	3100	CRIM	24	R	0750.0	0856.0		5.0			
	260	ONDR	8	S	0853.5	0853.5	.5	91.0			
	536	ONDR	1	S	1051.0	1051.0	.5	7.0			
	430	KRAK	42	SER	1305.5	1317.5	26.0	7.0			
	536	ONDR	42	SER	1310.0	1324.0	17.5	6.0			
	113	POTS	4	S/F	1321.5	1322.0	1.0	320.0	50.0		
	237	TRST	42	SER	1418.5	1418.6	.4	80.0	3.0		VO
	2800	OTTA	20	GRF	1755.0	1820.0	65.0	2.4	1.2		
	15400	PALE	8	S	1819.6	1819.6	.5	38.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	2235.1	2235.3	.2	10.0			QL=6 ST=2 TYP=3
06	208	VORO	44	NS	0000.0E		240.0D		2.0		
[	260	ONDR	43	NS	1008.0		234.0D				
[	245	SGMR	43	NS	1238.0	1332.0	502.0D	30.0			QL=6 ST=2 TYP=1
[	200	HIRA	44	NS	2148.0E	2250.0	580.0D	7.0	4.0		WR
[	245	LEAR	43	NS	2205.0	2230.1	770.0D	46.0			QL=6 ST=2 TYP=1
[	3750	TYKW	20	GRF	0210.0	0256.0	130.0	2.0	1.0		
[	2000	TYKW	20	GRF	0218.0	0300.0	160.0	3.0	1.5		
	810	KRAK	8	S	1146.7	1146.8	.2	8.0			
[	808	ONDR	8	S	1237.0	1237.0	.5	32.0			
[	536	ONDR	8	S	1237.0	1237.0	.1	14.0			
	930	BORD	46	C	1301.5	1301.7	.3	26.0	2.0		
	930	BORD	46	C	1410.1	1410.5	.7	26.0	2.0		
[	2800	OTTA	21	GRF	1500.0	1700.0	270.0	5.2	3.4		
[	2800	OTTA	20	GRF	1718.0	1722.0	27.0	2.6	1.3		

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
06	245	SGMR	47 GB	1801.1	1801.8	1.5	160.0			QL=6 ST=2 TYP=5
	1415	PALE	47 GB	1801.3	1801.8	1.3	139.0			QL=5 ST=2 TYP=5
	4995	PALE	8 S	1805.5	1805.6	.6	25.0			QL=6 ST=2 TYP=3
	2695	PALE	8 S	1805.5	1805.6	.3	17.0			QL=6 ST=2 TYP=3
	15400	PALE	47 GB	1805.6	1805.6	.5	51.0			QL=5 ST=2 TYP=5
	8800	PALE	8 S	1805.6	1805.6	.5	32.0			QL=6 ST=2 TYP=3
	245	PALE	8 S	2230.0	2230.1	.3	49.0			QL=6 ST=2 TYP=3
07	208	VORO	44 NS	0000.0E		240.0D		1.0		
	127	TORN	43 NS	0826.0	1100.9	480.0	120.0	6.0		V1
	260	ONDR	44 NS	0845.0E		303.0D	20.0			
	200	HIRA	44 NS	2148.0E	2300.0	310.0D	5.0	3.0		MR
	245	LEAR	43 NS	2206.0	0918.6	694.0D	56.0			QL=6 ST=2 TYP=1
	200	HIRA	8 S	0040.3	0040.5	.3	89.0			MR
	3750	TYKW	5 S	0204.5	0206.0	4.5	26.0	6.0		
	2000	TYKW	5 S	0204.5	0206.2	5.0	47.0	5.0		
	1000	TYKW	45 C	0205.0	0206.0	3.0	18.0	3.0		
	9400	TYKW	20 GRF	0205.0	0207.0	30.0	4.0	2.0		
	2695	LEAR	47 GB	0205.0	0206.1	2.6	52.0			QL=6 ST=2 TYP=5
	1415	LEAR	4 S/F	0205.0	0206.1	3.3	28.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	0205.6	0206.0	2.2	16.0			QL=6 ST=2 TYP=3
	1415	PALE	8 S	0205.6	0206.1	.7	26.0			QL=6 ST=2 TYP=3
	2695	PALE	47 GB	0205.6	0206.1	.7	61.0			QL=6 ST=2 TYP=5
	3750	TYKW	29 PBI	0209.0		60.0	4.0	2.0		
	2000	TYKW	20 GRF	0215.0	0225.0	60.0	2.0	1.0		
	2000	TYKW	21 GRF	0415.0	0501.0	100.0	3.0	1.5		
	3750	TYKW	21 GRF	0425.0	0501.0	140.0	7.0	3.0		
	9400	TYKW	20 GRF	0440.0	0508.0	100.0U	8.0	4.0U		RAIN
	2000	TYKW	5 S	0506.0	0507.8	4.0	4.0	2.5		
	3750	TYKW	5 S	0506.0	0507.8	4.0	8.0	4.0		
	2000	TYKW	29 PBI	0510.0		30.0	2.5	1.0		
	3750	TYKW	29 PBI	0510.0		30.0	4.0	2.0		
	8800	LEAR	8 S	0516.1	0516.3	.5	16.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0520.1	0520.3	.2	32.0			QL=6 ST=2 TYP=3
	3100	CRIM	20 GRF	0800.0	0946.0	240.0	20.0	7.0		
	2950	GORK	20 GRF	0902.0E	1048.0	148.0D	22.6			
	9100	GORK	20 GRF	0902.3	0953.5	111.0	15.0			
	2800	OTTA	26A FAL	1440.0	1715.0	155.0	-6.6	-3.3		
	2800	OTTA	1 S	1526.0	1528.0	4.0	2.6	1.2		
	2800	OTTA	20 GRF	1600.0	1605.0	30.0	2.6	1.3		
08	208	VORO	44 NS	0000.0E		240.0D		16.0		
	260	ONDR	44 NS	0945.0E		328.0D	199.0			
	200	HIRA	44 NS	2147.0E	0635.0	280.0D	10.0	5.0		WR
	245	LEAR	43 NS	2206.0	0622.5	769.0D	79.0			QL=6 ST=2 TYP=1
	208	VORO	40 F	0057.0	0058.0	2.0	100.0			
	245	PALE	47 GB	0211.5	0211.8	.6	57.0			QL=6 ST=2 TYP=5
	2000	TYKW	21 GRF	0215.0	0225.0	45.0	2.0	1.0		
	2000	TYKW	5 S	0253.0	0253.5	2.0	3.0	1.0		
	100	HIRA	46 C	0420.8	0420.8	1.2	280.0	140.0		0
	200	HIRA	7 C	0420.8	0421.0	1.0	33.0	7.0		0
	245	LEAR	8 S	0420.8	0421.1	1.0	34.0			QL=6 ST=2 TYP=3
	610	LEAR	47 GB	0508.1	0508.1	.2	219.0			QL=6 ST=2 TYP=5
	410	LEAR	8 S	0508.1	0508.1	.2	5.0			QL=6 ST=2 TYP=3
	100	HIRA	42 SER	0524.4	0526.6	4.1	1100.0			0
	2000	TYKW	45 C	0524.5	0525.0	2.5	5.0	1.5		
	2000	TYKW	5 S	0527.3	0527.7	1.5	2.0	.7		
	2000	TYKW	5 S	0615.3	0615.7	1.0	6.0	2.0		
	3750	TYKW	5 S	0615.3	0615.7	1.0	6.0	2.0		
	204	IZMI	4 S/F	0729.1	0729.2	.4	98.0	70.0		
	204	IZMI	41 F	0905.5	0905.6	1.5	220.0			
	810	KRAK	8 S	1035.2	1035.3	.2	11.0			
	536	ONDR	8 S	1133.3	1133.3	.1	29.0			
	2800	OTTA	21 GRF	1340.0	1350.0	20.0	3.8	1.9		
	536	ONDR	8 S	1341.5	1341.5	.5	123.0			
	2800	OTTA	4 S/F	1344.0	1345.2	2.0	12.4			
	2800	OTTA	22 GRF	1410.0	1440.0	150.0	9.8	3.8		
	2800	OTTA	20 GRF	1645.0	1700.0	35.0	2.6	1.3		
	245	PALE	47 GB	2328.1	2328.1	.4	53.0			QL=6 ST=2 TYP=5
	3750	TYKW	21 GRF	2340.0	0005.0	95.0	2.0	1.0		
	245	LEAR	47 GB	2358.1	2358.3	.5	60.0			QL=6 ST=2 TYP=5

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
08	245	PALE	8	S	2358.3	2358.3	.3	70.0			QL=6 ST=2 TYP=3
09	208	VORO	44	NS	0000.0E		240.0D		7.0		
	245	LEAR	43	NS	2207.0	0930.3	768.0D	37.0			QL=6 ST=2 TYP=1
	3750	TYKW	5	S	0045.7	0046.5	2.0	4.0	1.0		
	3750	TYKW	5	S	0048.5	0049.7	2.5	4.0	1.5		
	245	PALE	8	S	0209.3	0210.3	1.2	49.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	0210.0	0227.0	85.0	5.0	2.5		
	2000	TYKW	5	S	0215.0	0217.2	6.0	8.0	4.0		
	3750	TYKW	5	S	0215.0	0217.4	10.0	8.0	2.5		
	1415	LEAR	4	S/F	0215.8	0217.1	7.2	9.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0215.8	0217.3	3.8	10.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0215.8	0218.1	26.2D	8.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	0216.0	0217.6	4.0	4.0	1.0		
	9400	TYKW	20	GRF	0216.0	0221.0	40.0	4.0	2.0		
	15400	LEAR	20	GRF	0216.0	0229.6	26.0D	9.0			QL=6 ST=2 TYP=2
	8800	LEAR	20	GRF	0216.0	0239.8	26.0D	10.0			QL=6 ST=2 TYP=2
	2000	TYKW	29	PBI	0221.0		55.0	3.0	1.5		
	200	HIRA	8	S	0316.6	0317.0	.4	115.0			MR
	410	LEAR	8	S	1004.8	1006.1	1.5	6.0			QL=6 ST=2 TYP=3
	204	IZMI	41	F	1005.0	1005.3	1.5	85.0			
	245	LEAR	8	S	1005.1	1005.6	1.2	25.0			QL=6 ST=2 TYP=3
	127	TORN	7	C	1005.2	1005.6	1.5	1300.0	660.0		
	113	POTS	4	S/F	1005.3	1005.4	1.0	350.0	35.0		III
	810	KRAK	8	S	1333.5	1333.6	.2	6.0			
	2800	OTTA	240	R	1600.0	1620.0	20.0	4.6	3.0		
10	208	VORO	44	NS	0000.0E		240.0D				
	200	HIRA	43	NS	0500.0	0630.0	140.0D	7.0	4.0		WR
	127	TORN	43	NS	0824.0		336.0		2.0		VO
	260	ONDR	44	NS	0826.0E	1100.0U	329.0D	40.0			
	204	IZMI	43	NS	0925.0		155.0	40.0			
	245	PALE	43	NS	1733.0	1905.5	611.0	63.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2147.0E	0146.0	580.0D	10.0	3.0		WR
	245	LEAR	43	NS	2208.0	0051.6	767.0D	39.0			QL=6 ST=2 TYP=1
	3750	TYKW	20	GRF	0020.0	0100.0	110.0	3.0	1.5		
	2000	TYKW	20	GRF	0025.0	0105.0	90.0	2.0	1.0		
	245	PALE	8	S	0106.3	0106.5	.3	34.0			QL=6 ST=2 TYP=3
	410	PALE	8	S	0106.3	0106.5	.3	35.0			QL=6 ST=2 TYP=3
	200	HIRA	46	C	0540.0	0540.3	1.1	78.0	4.6		MR
	410	LEAR	8	S	0713.3	0713.5	.3	11.0			QL=6 ST=2 TYP=3
	536	ONDR	8	S	0901.5	0901.6	.3	17.0			
	6100	KISV	2	S/F	1124.7	1125.1	1.0	5.0			
	2800	OTTA	2	S/F	1351.8	1352.1	1.2	4.6	2.3		
	2800	OTTA	20	GRF	1725.0	1745.0	85.0	4.6	2.3		
	200	HIRA	46	C	2257.2	2257.6	1.1	160.0	45.0		O
11	208	VORO	44	NS	0000.0E		240.0D		3.0		
	260	ONDR	44	NS	0900.0E	1103.0	300.0D	57.0			
	3750	TYKW	20	GRF	0450.0	0520.0	70.0	2.0	1.0		
	2800	OTTA	20	GRF	1635.0	1735.0	135.0	2.8	1.3		
	245	LEAR	8	S	2232.0	2232.1	.1	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	2333.8	2333.8	.2	11.0			QL=6 ST=2 TYP=3
12	245	LEAR	8	S	0001.8	0001.8	.2	13.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0029.6	0029.6	.2	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0149.0	0149.1	.1	21.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0747.5	0747.6	.1	33.0			QL=1 ST=2 TYP=3
	430	KRAK	2	S/F	0835.0	0835.2	.7	22.0	2.0		
	810	KRAK	8	S	0835.2	0835.2	.1	4.0			
	260	ONDR	2	S/F	0954.5	0954.8	1.0	19.0			
	6100	KISV	20	GRF	1033.0	1051.0	90.0	6.0			
	650	GORK	22	GRF	1042.9	1046.1	8.9	7.0	3.0		
	3000	POTS	1	S	1045.0	1047.0	3.5	6.0			III
	9500	POTS	20	GRF	1045.0	1053.3	23.0	21.0			III
	260	ONDR	2	S/F	1045.0	1046.3	2.0	6.0			
	1470	POTS	4	S/F	1045.0	1047.0	4.5	9.0			III
	950	GORK	5	S	1045.2	1047.0	6.6	10.0			
	810	KRAK	4	S/F	1045.5	1047.0	2.7	15.0	4.0		
	260	ONDR	42	SER	1227.0	1230.0	8.0	4.0			
	810	KRAK	8	S	1347.0	1347.0	.1	6.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean	Int	Remarks
12	2800	OTTA	240	R	1425.0	1500.0	35.0	3.0	1.5		
	2800	OTTA	1	S	1757.0	1758.2	4.0	3.0	1.4		
	2800	OTTA	22	GRF	1910.0	2025.0	100.0	2.0			
	2695	PENT	1	S	2128.0	2129.0	2.0	2.4	.2		
13	245	LEAR	8	S	0043.6	0043.8	.2	28.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0108.6	0108.6	.2	13.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0318.8	0318.8	.2	11.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0353.0	0356.0	20.0	1.5	.7		
	245	LEAR	8	S	0607.8	0607.8	.2	25.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0647.8	0648.0	.3	15.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0708.5	0708.6	.3	25.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0730.1	0730.3	.2	25.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0839.3	0839.3	.2	17.0			QL=6 ST=2 TYP=3
	260	ONDR	2	S/F	1027.0	1027.5	2.0	10.0	3.0		
	536	ONDR	27	RF	1027.0	1035.0	23.0	7.0	4.0		
	536	ONDR	27	RF	1058.0	1108.5	15.0	10.0	8.0		
	536	ONDR	27	RF	1111.0	1129.5	32.0	20.0	16.0		
	260	ONDR	4	S/F	1129.0	1129.5	2.5	9.0	3.0		
	260	ONDR	8	S	1134.5	1134.5	.1	10.0			
[	260	ONDR	8	S	1223.0	1223.0	.1	22.00			
[	536	ONDR	8	S	1223.5	1223.5	.1	49.0			
	260	ONDR	8	S	1254.0	1254.5	1.0	6.0			
[	127	TORN	8	S	1254.2	1254.5	.8	50.0	30.0		VO
[	113	POTS	4	S/F	1254.3	1254.3	.2	200.0	50.0		
	536	ONDR	8	S	1300.5	1300.5	.1	169.0			
	260	ONDR	8	S	1301.5	1301.7	1.0	22.00			
	260	ONDR	8	S	1334.5	1334.5	.2	6.0			
	245	SGMR	8	S	1343.0	1344.3	1.6	17.0			QL=6 ST=2 TYP=3
	2800	OTTA	20	GRF	1800.0	1910.0	235.0	16.6	8.3		
	245	LEAR	8	S	2330.0	2330.1	.1	22.0			QL=5 ST=2 TYP=3
14	245	LEAR	8	S	0027.8	0027.8	.2	32.0			QL=5 ST=2 TYP=3
	245	LEAR	47	GB	0057.8	0058.0	.3	50.0			QL=1 ST=2 TYP=5
	245	LEAR	8	S	0238.3	0238.3	.2	26.0			QL=1 ST=3 TYP=3
	245	LEAR	8	S	0253.5	0253.6	.1	22.0			QL=1 ST=3 TYP=3
	2695	LEAR	20	GRF	0655.6	0700.0	17.4	11.0			QL=6 ST=2 TYP=2
	260	ONDR	27	RF	0952.0	1009.0	22.0	7.0	5.0		
[	260	ONDR	8	S	1145.0	1145.0	.5	3.0	5.0		
[	536	ONDR	8	S	1145.3	1145.3	.2	14.0			
	260	ONDR	8	S	1155.5	1155.7	.7	22.0			
	536	ONDR	8	S	1156.0	1156.0	.5	60.0			
	810	KRAK	8	S	1240.0	1240.0	.1	87.0			
	810	KRAK	8	S	1337.5	1337.5	.1	11.0			
	430	KRAK	8	S	1338.0	1338.2	.4	39.0			
[	245	PALE	47	GB	1740.0	1740.5	4.3	340.0			QL=6 ST=2 TYP=5
[	410	PALE	47	GB	1740.1	1740.3	1.9	57.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	1750.8	1751.3	1.0	77.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	1820.6	1820.8	.7	57.0			QL=6 ST=2 TYP=5
	8800	PALE	8	S	2052.6	2052.6	.5	44.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	2327.8	2327.8	.2	13.0			QL=1 ST=3 TYP=3
	245	LEAR	8	S	2355.1	2355.3	.2	13.0			QL=1 ST=2 TYP=3
15	245	LEAR	8	S	0048.3	0048.3	.2	20.0			QL=1 ST=2 TYP=3
	245	LEAR	8	S	0114.6	0114.6	.2	15.0			QL=1 ST=2 TYP=3
	3750	TYKW	5	S	0201.0	0202.0	2.5	6.0	2.0		
[	610	LEAR	8	S	0514.8	0515.0	.3	11.0			QL=6 ST=2 TYP=3
[	410	LEAR	8	S	0515.1	0515.1	.2	3.0			QL=6 ST=2 TYP=3
[	245	LEAR	8	S	0527.0	0527.1	.1	11.0			QL=1 ST=2 TYP=3
[	410	LEAR	8	S	0527.0	0527.1	.1	2.0			QL=1 ST=2 TYP=3
	260	ONDR	3	S	1052.0	1052.5	1.5	7.0	6.0		
	1470	POTS	8	S	1231.5	1231.7	1.0	13.0			
	2800	OTTA	240	R	1445.0	1555.0	70.0	5.4	2.4		
	2800	OTTA	20	GRF	1745.0	1800.0	40.0	2.4	1.2		
	245	LEAR	8	S	2357.6	2357.8	.2	13.0			QL=1 ST=2 TYP=3
16	245	LEAR	43	NS	0545.6	0607.6	310.4D	20.0			QL=6 ST=2 TYP=1
	245	LEAR	8	S	0121.3	0121.5	.3	15.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0139.5	0139.6	.1	26.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0200.1	0200.1	.2	38.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	0206.0	0206.1	.3	110.0			QL=6 ST=2 TYP=5

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
16	245	LEAR	8	S	0221.6	0221.8	.2	17.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0301.8	0302.0	.3	23.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0332.1	0332.3	.2	24.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0334.1	0334.1	.2	60.0			QL=6 ST=2 TYP=5
	3750	TYKW	21	GRF	0355.0	0420.0	95.0	2.0	1.0		
	3750	TYKW	5	S	0510.5	0511.1	1.5	3.0	1.0		
	3750	TYKW	29	PBI	0512.0		10.0	1.0	.5		
	2800	OTTA	240	R	1445.0	1448.0	3.0	1.6	.8		
	2800	OTTA	240	R	1620.0	1635.0	15.0	1.6	.8		
E	245	PALE	47	GB	2300.8	2301.0	.5	90.0			QL=6 ST=2 TYP=5
E	200	HIRA	42	SER	2300.8	2301.0	1.1	20.0			O
L	245	LEAR	47	GB	2300.8	2301.0	1.3	86.0			QL=6 ST=2 TYP=5
E	245	PALE	47	GB	2344.0	2345.6	3.3	210.0			QL=5 ST=2 TYP=5
E	610	PALE	47	GB	2344.3	2345.6	1.5	130.0			QL=5 ST=2 TYP=5
L	410	PALE	47	GB	2344.3	2345.6	2.7	130.0			QL=5 ST=2 TYP=5
17	245	LEAR	43	NS	0202.5	0218.6	533.5D	37.0			QL=6 ST=2 TYP=1
	127	TORN	43	NS	1204.0		64.0		.5		VO
	245	LEAR	44	NS	2212.0E	2216.5	20.0D	28.0			QL=6 ST=2 TYP=1
	245	LEAR	8	S	0000.6	0000.6	.2	20.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0024.1	0024.1	.2	22.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0144.0	0144.1	.1	13.0			QL=6 ST=2 TYP=3
E	9400	TYKW	5	S	0257.0	0257.7	1.0	25.0	6.0		
E	8800	LEAR	8	S	0257.5	0257.6	1.1	24.0			QL=6 ST=2 TYP=3
L	15400	LEAR	8	S	0257.6	0257.6	.4	18.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	0258.0		40.0	4.0	2.0		
C	3750	TYKW	5	S	0343.5	0344.2	2.0	5.0	1.5		
	9400	TYKW	5	S	0343.5	0344.2	1.5	7.0	3.0		
	9400	TYKW	29	PBI	0345.0		10.0	3.0	1.5		
	9400	TYKW	45	C	0525.0	0525.8	1.5	9.0	3.0		
E	9400	TYKW	45	C	0557.0	0557.2	1.5	10.0	2.0		
E	2000	TYKW	5	S	0557.0	0557.6	1.5	1.0	.3		
L	3750	TYKW	5	S	0557.0	0557.6	1.5	3.0	1.0		
	260	ONDR	41	F	1119.0	1135.0	18.0	4.0			
C	29	UPIC	2	S/F	1134.1	1134.8	1.8				
L	33	UPIC	2	S/F	1134.3	1135.1	1.5				
C	260	ONDR	8	S	1157.0	1157.0	.5	101.0			
L	536	ONDR	8	S	1157.0	1157.0	.1	63.0			
	127	TORN	4	S/F	1234.3	1236.0	5.3	60.0	6.0		
	260	ONDR	41	F	1303.0	1322.0	19.0	8.0			
	260	ONDR	41	F	1343.5	1346.5	7.5	6.0			
	2800	OTTA	1	S	1832.0	1832.5	1.0	2.8	1.2		
E	610	PALE	47	GB	1832.0	1833.3	1.5	200.0			QL=6 ST=2 TYP=5
L	2695	SGMR	8	S	1832.1	1832.3	.4	19.0			QL=6 ST=2 TYP=3
	610	SGMR	47	GB	1832.1	1833.3	1.4	119.0			QL=6 ST=2 TYP=5
	610	SGMR	47	GB	1959.3	1959.5	.5	64.0			QL=6 ST=2 TYP=5
	2800	OTTA	20	GRF	2025.0	2110.0	55.0	2.2	1.2		
	2695	PENT	2	S/F	2129.5	2130.9	3.3	6.4	3.2		
E	3750	TYKW	5	S	2239.5	2240.2	2.5	4.0	1.5		
E	1000	TYKW	5	S	2240.0	2240.2	1.0	2.0	.7		
L	2000	TYKW	5	S	2240.0	2240.2	1.5	3.0	1.0		
18	245	LEAR	43	NS	0104.5	0400.6	591.5D	45.0			QL=6 ST=2 TYP=1
	260	ONDR	43	NS	1000.0		227.0D				
	245	LEAR	43	NS	2213.0	0111.0	763.0D	139.0			QL=6 ST=2 TYP=1
	245	LEAR	47	GB	0022.8	0023.0	.3	54.0			QL=6 ST=2 TYP=5
	245	LEAR	8	S	0039.3	0039.6	1.3	20.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0045.8	0045.8	.2	11.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0342.0	0342.4	1.3	4.0	1.5		
C	2000	TYKW	20	GRF	0405.0	0408.0	45.0	3.0	1.0		
L	3750	TYKW	20	GRF	0406.0	0408.0	35.0	2.0	1.0		
	930	BORD	8	S	1113.7	1113.7	.1	22.0	1.0		
	127	TORN	7	C	1221.3	1222.1	3.5	30.0	10.0		
19	208	VORO	44	NS	0000.0E		240.0D		2.0		
C	127	TORN	43	NS	0826.0	1201.5	374.0	10.0	2.0		VO
L	260	ONDR	44	NS	0833.0E		331.0D				
	3750	TYKW	20	GRF	0018.0	0021.0	50.0	2.0	1.0		
	2000	TYKW	5	S	0025.0	0026.3	4.0	2.0	.7		
	245	PALE	4	S/F	0324.6	0325.6	3.2	38.0			QL=6 ST=2 TYP=3
F	245	LEAR	8	S	0823.0	0823.1	.1	11.0			QL=6 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
19	410	LEAR	8	S	0823.0	0823.1	.1	9.0			QL=6 ST=2 TYP=3
	1470	POTS	4	S/F	1059.5	1102.1	16.0	37.0			
	245	LEAR	8	S	2222.1	2222.1	.2	13.0			QL=6 ST=2 TYP=3
20	245	LEAR	43	NS	0047.6	0119.6	607.4D	46.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	0100.0E		180.0D		5.0		
	260	ONDR	44	NS	0821.0E		342.0D				
	200	HIRA	44	NS	2146.0E	2334.0	440.0D	20.0	5.0		WR
	245	LEAR	43	NS	2213.0	0234.1	762.0D	56.0			QL=6 ST=2 TYP=1
	410	LEAR	8	S	0659.6	0659.6	.2	7.0			QL=5 ST=2 TYP=3
	245	LEAR	8	S	0659.6	0659.6	.2	39.0			QL=5 ST=2 TYP=3
	410	LEAR	8	S	0730.5	0730.6	.1	2.0			QL=5 ST=2 TYP=3
	245	LEAR	47	GB	0730.5	0730.6	.1	62.0			QL=5 ST=2 TYP=5
	410	LEAR	8	S	0820.1	0820.3	.2	9.0			QL=5 ST=2 TYP=3
	245	LEAR	8	S	0820.1	0820.3	.2	15.0			QL=5 ST=2 TYP=3
	930	BORD	41	F	0830.2	0830.6	.6	81.0	3.0		
	610	LEAR	8	S	1006.0	1006.1	.3	13.0			QL=5 ST=2 TYP=3
	930	BORD	8	S	1111.4	1111.4	.1	16.0	1.0		
	430	KRAK	8	S	1211.0	1211.2	.3	17.0			
	2800	OTTA	20	GRF	1837.0	1839.0	20.0	1.8	.9		
	2000	TYKW	5	S	2353.0	2354.8	6.0	3.0	1.0		
	3750	TYKW	20	GRF	2353.0	2358.0	70.0	3.0	1.5		
21	208	VORO	44	NS	0100.0E		180.0D		5.0		
	260	ONDR	44	NS	0800.0E		360.0D				
	245	PALE	43	NS	1730.0	1951.0	616.0D	90.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2146.0E	0002.0	600.0D	20.0	5.0		MR
	245	LEAR	43	NS	2215.0	0843.3	760.0D	98.0			QL=6 ST=2 TYP=1
	3750	TYKW	45	C	0636.0	0638.7	8.0	13.0	6.0		
	9400	TYKW	45	C	0636.0	0638.7	6.0	17.0	6.0		
	2000	TYKW	45	C	0636.5	0637.8	6.5	43.0	8.0		
	2000	TYKW			0636.5	0638.7		33.0			
	1000	TYKW	45	C	0637.0	0638.7	5.0	13.0	4.0		
	4995	LEAR	4	S/F	0637.0	0638.8	15.0	19.0			QL=6 ST=2 TYP=3
	15000	KISV	2	S/F	0637.0	0638.9	6.0	18.0			
	245	LEAR	4	S/F	0637.3	0639.6	3.7	18.0			QL=6 ST=2 TYP=3
	650	GORK	2	S/F	0637.7	0639.0	4.9	1.6			
	2950	GORK	21	GRF	0637.8	0638.6	14.5	9.0			
	3100	CRIM	3	S	0637.8	0638.8	2.0	24.0	8.0		
	8800	LEAR	4	S/F	0638.0	0638.8	5.1	23.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0638.0	0638.8	13.8	34.0			QL=6 ST=2 TYP=3
	1415	LEAR	47	GB	0638.0	0638.8	1.1	71.0			QL=6 ST=2 TYP=5
	9100	GORK	22	GRF	0638.0	0638.8	9.9	16.0			
	15400	LEAR	4	S/F	0638.0	0641.6	5.0	20.0			QL=6 ST=2 TYP=3
	950	GORK	2	S/F	0638.1	0639.0	3.9	8.0			
	410	LEAR	4	S/F	0638.1	0639.3	2.9	25.0			QL=6 ST=2 TYP=3
	6100	KISV	2	S/F	0638.5E	0639.0	4.0D	3.0D			
	2950	GORK	1	S	0638.8	0639.0	.4	10.0	5.0		
	9400	TYKW	30	PBI	0642.0		50.0D	6.0	4.0D		
	2000	TYKW	30	PBI	0643.0		50.0	4.0	2.0		
	3750	TYKW	30	PBI	0644.0		40.0	5.0	3.0		
	1000	TYKW	45	C	0646.0	0646.6	1.0	4.0	1.5		
	410	LEAR	8	S	0649.3	0649.3	.2	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0649.3	0649.3	.2	23.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0653.0	0653.8	2.5	4.0	1.5		
	3750	TYKW	5	S	0653.0	0653.9	2.5	2.5	1.0		
	2000	TYKW	5	S	0653.0	0654.4	4.0	1.5	.5		
	610	LEAR	8	S	0658.5	0659.0	.6	19.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0658.8	0659.0	.3	21.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0658.8	0659.0	.3	21.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0747.1	0747.1	.2	31.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0747.1	0747.1	.2	5.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0805.6	0805.8	.2	16.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0805.6	0805.8	.2	5.0			QL=6 ST=2 TYP=3
	2950	GORK	1	S	0819.9	0820.4	1.0	3.6	2.0		
	1470	POTS	4	S/F	1113.5	1114.2	2.5	1.0			
	650	GORK	2	S/F	1113.7	1114.3	2.5	4.0			
	950	GORK	1	S	1113.8	1114.3	2.5	3.0			
	3000	POTS	1	S	1114.0	1114.7	1.0	3.0			
	2950	GORK	1	S	1114.2	1114.6	1.2	3.0			
	500	HIRA	20	GRF	2331.0	0041.5	170.0	15.0	7.0		SR

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
21	1415	LEAR	20	GRF	2333.3	2338.0	21.2	5.0			QL=6 ST=2 TYP=2
	245	LEAR	20	GRF	2334.1	0000.1	85.9	22.0			QL=5 ST=2 TYP=2
	410	LEAR	20	GRF	2336.0	0004.0	84.0	16.0			QL=6 ST=2 TYP=2
	610	LEAR	20	GRF	2339.0	0017.6	81.0	13.0			QL=6 ST=2 TYP=2
22	208	VORO	44	NS	0000.0E		240.0D		4.0		
	260	ONDR	44	NS	0800.0E		360.0D				
	245	LEAR	43	NS	2216.0	0218.1	759.0D	62.0			QL=6 ST=2 TYP=1
	200	HIR	46	C	0200.3	0200.6	1.2	150.0	45.0		MR
	245	LEAR	20	GRF	0403.5	0427.0	144.5	15.0			QL=6 ST=2 TYP=2
	410	LEAR	20	GRF	0403.5	0427.1	131.8	13.0			QL=6 ST=2 TYP=2
	500	HIRA	20	GRF	0417.0	0440.6	130.0	15.0	6.0		SR
	410	LEAR	8	S	0645.6	0645.6	.2	15.0			QL=6 ST=2 TYP=3
	245	LEAR	20	GRF	0811.6	0840.8	61.2	16.0			QL=6 ST=2 TYP=2
	610	LEAR	20	GRF	0814.1	0839.0	67.2	11.0			QL=6 ST=2 TYP=2
	410	LEAR	20	GRF	0820.3	0837.6	52.5	6.0			QL=6 ST=2 TYP=2
	33	UPIC	45	C	1038.3	1039.9	3.0				
	29	UPIC	45	C	1038.5	1040.4	3.1				
	204	IZMI	4	S/F	1039.0	1039.9	1.5	144.0	70.0		
	29	UPIC	2	S/F	1158.7	1159.0	.6				
	33	UPIC	2	S/F	1158.7	1159.0	.6				
	536	ONDR	8	S	1221.3	1221.3	.1	10.0			
	200	HIRA	46	C	2348.2	2348.4	2.7	170.0	24.0		0
	410	LEAR	4	S/F	2351.6	2353.6	4.0	5.0			QL=6 ST=2 TYP=3
	245	LEAR	4	S/F	2352.5	2353.1	3.0	34.0			QL=6 ST=2 TYP=3
23	208	VORO	44	NS	0000.0E		240.0D		2.0		
	245	LEAR	43	NS	2217.0	0916.0	758.0D	52.0			QL=6 ST=2 TYP=1
	9400	TYKW	20	GRF	0205.0	0240.0	75.0	3.0	1.5		
	3750	TYKW	20	GRF	0210.0	0242.0	80.0	4.0	2.0		
	2000	TYKW	20	GRF	0215.0	0240.0	75.0	4.0	2.0		
	610	LEAR	8	S	0248.8	0248.8	.3	11.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0255.6	0255.6	.9	10.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0255.6	0255.8	1.7	38.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	0530.0	0545.0	50.0	1.5	.7		
	2000	TYKW	5	S	0536.7	0537.2	2.5	1.5	.5		
	1000	TYKW	5	S	0536.7	0537.2	1.3	2.0	.5		
	3750	TYKW	5	S	0537.0	0537.3	1.0	1.5	.5		
	260	ONDR	4423		0835.0E		317.0D				
	536	ONDR	4	S/F	1114.0	1145.0	31.0U	10.0			
	810	KRAK	8	S	1114.5	1114.5	.1	13.0			
	29	UPIC	45	C	1126.7	1127.0	1.4				
	33	UPIC	45	C	1126.8	1127.0	1.6				
	113	POTS	4	S/F	1132.5	1132.6	.4	125.0	25.0		
	536	ONDR	46	C	1159.0	1159.0	1.5	46.0			
	237	TRST	42	SER	1414.2	1414.6	.7	80.0	8.0		L
	237	TRST	46	C	1416.4	1416.8	.7	300.0	11.0		L
	200	HIRA	42	SER	2225.1	2228.0	4.7	560.0			0
	100	HIRA	42	SER	2225.5	2228.0	4.3	2800.0			0
	245	LEAR	47	GB	2226.5	2228.1	3.5	460.0			QL=6 ST=2 TYP=5
	410	LEAR	8	S	2227.1	2228.0	1.2	27.0			QL=6 ST=2 TYP=3
	245	LEAR	49	GB	2236.8	2237.0	.3	520.0			QL=6 ST=2 TYP=6
	245	PALE	47	GB	2237.0	2237.1	.1	450.0			QL=6 ST=2 TYP=5
	410	PALE	4	S/F	2316.1	2319.1	3.9	24.0			QL=6 ST=2 TYP=3
	245	PALE	4	S/F	2316.1	2319.1	6.5	27.0			QL=6 ST=2 TYP=3
	500	HIRA	7	C	2319.3	2320.0	1.0	230.0	60.0		WR
	610	PALE	4	S/F	2319.5	2320.3	2.3	38.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	2319.6	2319.8	.4	13.0			QL=6 ST=2 TYP=3
	610	LEAR	4	S/F	2319.6	2320.1	2.2	31.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	2320.1	2320.3	.5	8.0			QL=6 ST=2 TYP=3
24	260	ONDR	44	NS	0843.0E		344.0D				
	410	LEAR	8	S	0002.8	0003.0	.5	13.0			QL=6 ST=2 TYP=3
	200	HIRA	46	C	0150.3	0150.7	1.0	240.0	70.0		WR
	245	LEAR	47	GB	0150.6	0151.1	1.2	87.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0150.8	0151.1	.8	84.0			QL=6 ST=2 TYP=5
	208	VORO	4	S/F	0151.0	0151.0	1.5	97.0			
	610	LEAR	47	GB	0158.1	0158.5	.7	110.0			QL=6 ST=2 TYP=5
	610	PALE	47	GB	0158.3	0158.5	.5	96.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0248.0	0248.1	.3	100.0			QL=6 ST=2 TYP=5
	3750	TYKW	5	S	0440.5	0441.3	3.0	1.5	.5		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
24	430	KRAK	8	S	0808.3	0808.3	.1	10.0			
	930	BORD	46	C	0831.6	0831.9	.7	45.0	3.0		
	930	BORD	4603		0954.3	0954.6	.5	53.0	3.0		
	536	ONDR	8	S	1103.6	1103.6	.5	10.0			
	536	ONDR	8	S	1105.0	1105.0	.1	14.0			
	536	ONDR	8	S	1122.0	1122.0	.1	7.0			
	536	ONDR	8	S	1222.0	1222.0	.1	39.0			
	237	TRST	45	C	1222.0	1222.3	.5	70.0	3.0		L
	113	POTS	4	S/F	1222.2	1222.3	.2	200.0	40.0		III
	113	POTS	4	S/F	1222.2	1222.3	.2	200.0	40.0		III
	536	ONDR	8	S	1258.0	1259.0	110.0	169.0			
	2800	OTTA	240	AR	1545.0	1620.0	35.0	2.4	1.2		
	2800	OTTA	1	S	1557.0	1559.2	10.0	2.4	1.0		
	2800	OTTA	20	GRF	1700.0	1825.0	140.0	3.4	1.5		
	2695	PENT	1	S	2122.0	2124.0	5.0	2.6	1.0		
25	245	LEAR	43	NS	0715.0	0726.5	220.0D	53.0			QL=6 ST=3 TYP=1
	260	ONDR	43	NS	1139.0	1211.5	87.0	8.0			
	245	LEAR	43	NS	2218.0	0334.0	757.0D	38.0			QL=6 ST=2 TYP=1
	245	LEAR	8	S	0057.8	0058.0	.3	47.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0214.1	0214.1	.2	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0259.0	0259.1	1.3	11.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0539.8	0539.8	.2	6.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0539.8	0539.8	.2	16.0			QL=6 ST=2 TYP=3
	245	LEAR	4	S/F	0637.6	0639.0	5.2	48.0			QL=1 ST=2 TYP=3
	245	LEAR	8	S	0703.8	0703.8	.2	27.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0808.8	0809.0	.3	9.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0808.8	0809.0	.3	32.0			QL=6 ST=2 TYP=3
	3100	CRIM	24	R	0810.0	1005.0		5.0			
26	260	ONDR	44	NS	0823.0E		337.0D				
	245	LEAR	43	NS	2235.0	0931.3	739.0D	61.0			QL=6 ST=2 TYP=1
	3750	TYKW	20	GRF	0015.0	0100.0	100.0	3.0	1.5		
	9400	TYKW	20	GRF	0020.0	0040.0	90.0	3.0	1.5U		INTERFERENCE
	2000	TYKW	20	GRF	0020.0	0050.0	90.0	2.0	1.0		
	2000	TYKW	5	S	0210.0	0215.0	15.0	2.0	1.0		
	3750	TYKW	20	GRF	0210.0	0222.0	40.0	3.0	1.5		
	410	LEAR	8	S	0628.3	0628.5	.3	2.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0628.3	0628.5	.3	13.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0646.1	0646.1	.2	5.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0646.1	0646.1	.2	18.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0731.1	0731.3	.2	41.0			QL=6 ST=2 TYP=3
	930	BORD	8	S	1007.2	1007.3	.3	25.0	2.0		
	2800	OTTA	20	GRF	1535.0	1617.0	575.0	2.6	1.3		
	2695	PENT	22	GRF	2110.0	2155.0	60.0	2.4	1.0		
	1415	LEAR	20	GRF	2310.8	2330.5	31.2	7.0			QL=6 ST=2 TYP=2
	15400	LEAR	20	GRF	2320.0	2331.1	21.8	28.0			QL=6 ST=2 TYP=2
27	208	VORO	44	NS	0000.0E		240.0D				
	200	HIRA	43	NS	0536.0	0628.0	78.0D	20.0	5.0		WL
	204	IZMI	43	NS	0700.0		300.0	40.0			
	260	ONDR	44	NS	0826.0E		362.0D				
	430	KRAK	43	NS	0922.3	1220.6	241.0	59.0			
	127	TORN	43	NS	0933.0	1237.8	260.0	90.0			V1
	245	LEAR	43	NS	2219.0	0527.5	755.0D	75.0			QL=6 ST=2 TYP=1
	3750	TYKW	20	GRF	0039.0	0042.5	30.0	1.5	.5		
	208	VORO	48	C	0131.0	0150.0	29.0	200.0D			
	2000	TYKW	20	GRF	0225.0	0240.0	50.0	1.5	.7		
	3750	TYKW	20	GRF	0230.0	0240.0	40.0	2.0	1.0		
	3750	TYKW	21	GRF	0330.0	0345.0	16.0	5.0	2.0		
	9400	TYKW	20	GRF	0331.0	0337.0	90.0	6.0	3.0		
	3750	TYKW	5	S	0333.0	0335.7	7.0	3.0	1.0		
	2000	TYKW	20	GRF	0333.0	0349.0	80.0	2.0	1.0		
	4995	LEAR	20	GRF	0333.0	0336.1	12.0	8.0			QL=6 ST=2 TYP=2
	8800	LEAR	20	GRF	0333.0	0336.1	12.0	11.0			QL=6 ST=2 TYP=2
	15400	LEAR	20	GRF	0334.0	0341.3	11.0	20.0			QL=6 ST=2 TYP=2
	2000	TYKW	20	GRF	0455.0	0505.0	60.0	2.0	1.0		
	3750	TYKW	20	GRF	0455.0	0505.0	70.0	2.0	1.0		
	410	LEAR	8	S	0634.0	0634.1	.1	10.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0634.0	0634.1	.1	17.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0637.0	0637.2	.7	9.0	4.0		

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27	410	LEAR	8	S	0810.8	0811.0	.3	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0810.8	0811.0	.3	30.0			QL=6 ST=2 TYP=3
	430	KRAK	8	S	0836.8	0836.9	.2	16.0			
	410	LEAR	8	S	0837.1	0837.1	.2	15.0			QL=6 ST=2 TYP=3
	536	ONDR	8	S	1159.0	1159.0	.1	21.0			
	536	ONDR	8	S	1249.5	1249.5	.1	20.0			
	237	TRST	45	C	1250.1	1250.3	.5	60.0	17.0		L
	536	ONDR	8	S	1332.5	1332.5	.1	14.0			
	2800	OTTA	20	GRF	1800.0	1927.0	125.0	2.6	1.3		
	2800	OTTA	2	S/F	2125.0	2125.2	1.0	6.2	1.6		
	410	PALE	47	GB	2152.1	2152.3	.5	239.0			QL=6 ST=2 TYP=5
28	208	VORO	44	NS	0300.0E		60.0D		2.0		
	200	HIRA	43	NS	0341.0	0700.0	250.0D	10.0	5.0		WL
	200	GORK	44	NS	0603.0E		300.0D		5.0		
	204	IZMI	44	NS	0700.0E		300.0D	60.0			
	260	ONDR	44	NS	0845.0E		345.0D				
	127	TORN	43	NS	1004.0	1013.8	182.0	30.0			V1
	245	PALE	43	NS	1730.0	2240.1	625.0D	270.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2220.0	0320.0	754.0D	200.0			QL=6 ST=2 TYP=1
	410	LEAR	8	S	0219.8	0219.8	.2	10.0			QL=6 ST=2 TYP=3
	3750	TYKW	20	GRF	0400.0	0440.0	95.0	2.0	1.0		
	2000	TYKW	5	S	0507.0	0507.7	1.5	5.0	2.0		
	410	LEAR	47	GB	0748.0	0748.6	1.0	96.0			QL=6 ST=2 TYP=5
	430	KRAK	42	SER	1037.5	1042.5	52.5	32.0			
	536	ONDR	8	S	1150.5	1150.5	.3	34.0			
	430	KRAK	8	S	1300.7	1300.7	.1	27.0			
	430	KRAK	42	SER	1348.0	1400.7	12.7U	23.0			
	2800	OTTA	240	AR	1430.0	1440.0	10.0	2.8			
	2800	OTTA	3	S	1434.2	1434.7	4.0	11.4	2.8		
	4995	SGMR	8	S	1434.3	1434.5	.5	13.0			QL=6 ST=2 TYP=3
	2695	SGMR	8	S	1434.5	1434.6	.3	13.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	2236.3	2236.6	.5	130.0			QL=6 ST=2 TYP=5
	2695	PENT	1	S	2309.0	2309.1	1.2	7.8	1.9		
	3750	TYKW	5	S	2309.0	2309.2	.7	5.0	2.0		
	2000	TYKW	5	S	2309.0	2309.2	.7	8.0	2.0		
29	208	VORO	44	NS	0000.0E		240.0D		3.0		
	200	HIRA	43	NS	0125.0	0251.0	155.0	8.0	4.0		O
	410	LEAR	43	NS	0217.5	0219.5	61.6	10.0			QL=6 ST=2 TYP=1
	200	GORK	43	NS	0730.0		280.0		5.0		
	260	ONDR	44	NS	0829.0E		337.0D				
	430	KRAK	43	NS	0844.0	0925.8	200.0	25.0			
	245	PALE	43	NS	1745.0	2344.6	610.0D	230.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2140.0E	2317.0	615.0D	100.0	20.0		O
	245	LEAR	43	NS	2220.0	0729.1	754.0D	210.0			QL=6 ST=2 TYP=1
	410	LEAR	47	GB	0011.8	0011.8	.2	57.0			QL=6 ST=2 TYP=5
	2000	TYKW	20	GRF	0443.0	0510.0	90.0	1.5	.7		
	3750	TYKW	21	GRF	0450.0	0510.0	70.0	2.0	1.0		
	9400	TYKW	5	S	0507.0	0507.7	1.5	5.0	2.0		
	3750	TYKW	5	S	0507.0	0507.7	2.0	2.0	.5		
	410	LEAR	8	S	0533.3	0533.6	.5	13.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0533.5	0533.6	.3	130.0			QL=6 ST=2 TYP=5
	9400	TYKW	5	S	0552.0	0552.8	2.0U	10.0	4.0		INTERFERENCE
	410	LEAR	8	S	0755.5	0755.6	.1	6.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0755.5	0755.6	.1	26.0			QL=6 ST=2 TYP=3
	430	KRAK	8	S	1300.5	1300.6	.3	21.0			
	245	PALE	47	GB	1804.3	1805.1	1.0	119.0			QL=5 ST=2 TYP=5
	2800	OTTA	240	R	1839.0	1842.0	3.0	2.8	1.2		
	2800	OTTA	23	GRF	1910.0	1934.0	120.0	6.0			
	2800	OTTA	3	S	1932.5	1933.0	1.2	10.4	5.0		
	2695	SGMR	8	S	1932.8	1932.8	.5	19.0			QL=6 ST=2 TYP=3
	4995	SGMR	8	S	1932.8	1933.0	.3	11.0			QL=6 ST=2 TYP=3
	3750	TYKW	20	GRF	2332.0	2359.0	80.0	3.0	1.5		
30	208	VORO	44	NS	0000.0E		240.0D		17.0		
	200	GORK	44	NS	0612.0E		228.0D		5.0		
	204	IZMI	44	NS	0700.0E		185.0D	60.0			
	260	ONDR	44	NS	0800.0E		356.0D				
	127	TORN	43	NS	1132.0	1236.0	65.0	10.0			VO
	245	PALE	43	NS	1921.0	1921.5	451.5	35.0			QL=6 ST=2 TYP=1

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1983

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
30	3750	TYKW	20	GRF	0120.0	0150.0	90.0	2.0	1.0		
	2000	TYKW	20	GRF	0335.0	0420.0	100.0	1.5	.7		
	3750	TYKW	21	GRF	0335.0	0420.0	120.0	3.0	1.5		
	3750	TYKW	5	S	0500.5	0502.2	12.0	2.0	.7		
	610	LEAR	8	S	0501.8	0502.0	.3	40.0			QL=6 ST=3 TYP=3
	245	LEAR	8	S	0501.8	0502.0	.3	29.0			QL=6 ST=3 TYP=3
	610	LEAR	8	S	0601.8	0602.0	.3	19.0			QL=6 ST=2 TYP=3
	430	KRAK	42	SER	0802.5	0803.2	.7	31.0			
	536	ONDR	8	S	0937.0	0937.0	.3	10.0			
	430	KRAK	8	S	1009.3	1009.7	.6	62.0			
	810	KRAK	8	S	1009.8	1010.0	.2	6.0			
	430	KRAK	42	SER	1251.0	1308.5	18.0	32.0			
	2800	OTTA	1	S	1547.0	1549.0	7.0	2.2	1.1		
	245	PALE	47	GB	1803.8	1804.3	.7	119.0			QL=5 ST=2 TYP=5
31	208	VORO	44	NS	0000.0E		240.0D				
	245	LEAR	43	NS	0430.0	0911.0	383.0D	27.0			QL=6 ST=2 TYP=1
	260	ONDR	44	NS	0817.0E		343.0D				
	430	KRAK	43	NS	0944.0	1009.5	238.0	32.0			
	245	PALE	43	NS	1800.0	2025.6	600.0D	100.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2222.0	2323.1	751.0D	88.0			QL=6 ST=2 TYP=1
	245	LEAR	8	S	0049.8	0049.8	.5	19.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0105.5	0106.1	1.5	6.0	3.0		
	9400	TYKW	29	PBI	0107.0		20.0	2.0	1.0		
	3750	TYKW	20	GRF	0140.0	0215.0	140.0	3.0	1.5		
	245	LEAR	8	S	0150.6	0150.6	.2	18.0			QL=6 ST=2 TYP=3
	2000	TYKW	20	GRF	0205.0	0215.0	40.0	2.0	1.0		
	245	LEAR	8	S	0327.6	0327.8	.2	10.0			QL=6 ST=3 TYP=3
	245	LEAR	8	S	0405.1	0405.3	.2	15.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0410.0	0410.8	2.0	3.0	1.5		
	9400	TYKW	20	GRF	0410.0	0416.0	40.0	3.0	1.5		
	3750	TYKW	29	PBI	0412.0		15.0	1.5	.7		
	3750	TYKW	21	GRF	0440.0	0456.0	120.0	3.0	1.5		
	2000	TYKW	20	GRF	0450.0	0454.0	30.0	1.5	.7		
	3750	TYKW	5	S	0512.0	0515.5	15.0	2.0	.7		
	9400	TYKW	5	S	0521.8	0522.1	2.5	3.0	1.0		
	245	LEAR	8	S	0525.1	0525.3	.2	10.0			QL=6 ST=3 TYP=3
	6100	KISV	22	GRF	0709.5	0716.0	26.0	3.0			
	9100	GORK	20	GRF	0740.3	0807.1	39.8	12.0			
	6100	KISV	22	GRF	0751.5E	0807.2	28.0D	4.0			
	15000	KISV	21	GRF	0754.5	0807.2	18.0	11.0			
	9100	GORK	2	S/F	1003.0	1003.3	5.0	10.0			
	6100	KISV	2	S/F	1142.0	1146.5	8.0	5.0D			
	2950	GORK	2	S/F	1142.6	1143.0	2.8	7.0			
	650	GORK	4	S/F	1142.7	1142.9	1.4	2.0			
	930	BORD	46	C	1142.8	1143.2	1.2	48.0	2.0		
	950	GORK	2	S/F	1142.8	1143.2	1.5	15.0			
	810	KRAK	2	S/F	1142.8	1143.6	1.5	23.0	4.0		
	2800	OTTA	240	R	1620.0	1645.0	25.0	5.0	2.5		
	2800	OTTA	20	GRF	1845.0	1900.0	75.0	4.6	2.3		

Reports are received routinely from the following observatories:

ATHN = Athens
BERN = Berne
BORD = Bordeaux
CRIM = Crimea
DWIN = Dwingeloo
GORK = Gorky
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = IZMIRAN
KISV = Kislovodsk
KRAK = Krakow
LEAR = Learmonth
MANI = Manila
NAGO = Nagoya
NOBE = Nobeyama
ONDR = Ondrejov
OTTA = Ottawa
PALE = Palehua
PEKG = Peking
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
TORN = Torun
TYKW = Toyokawa
TRST = Trieste
UPIC = Upice
VORO = Voroshilov

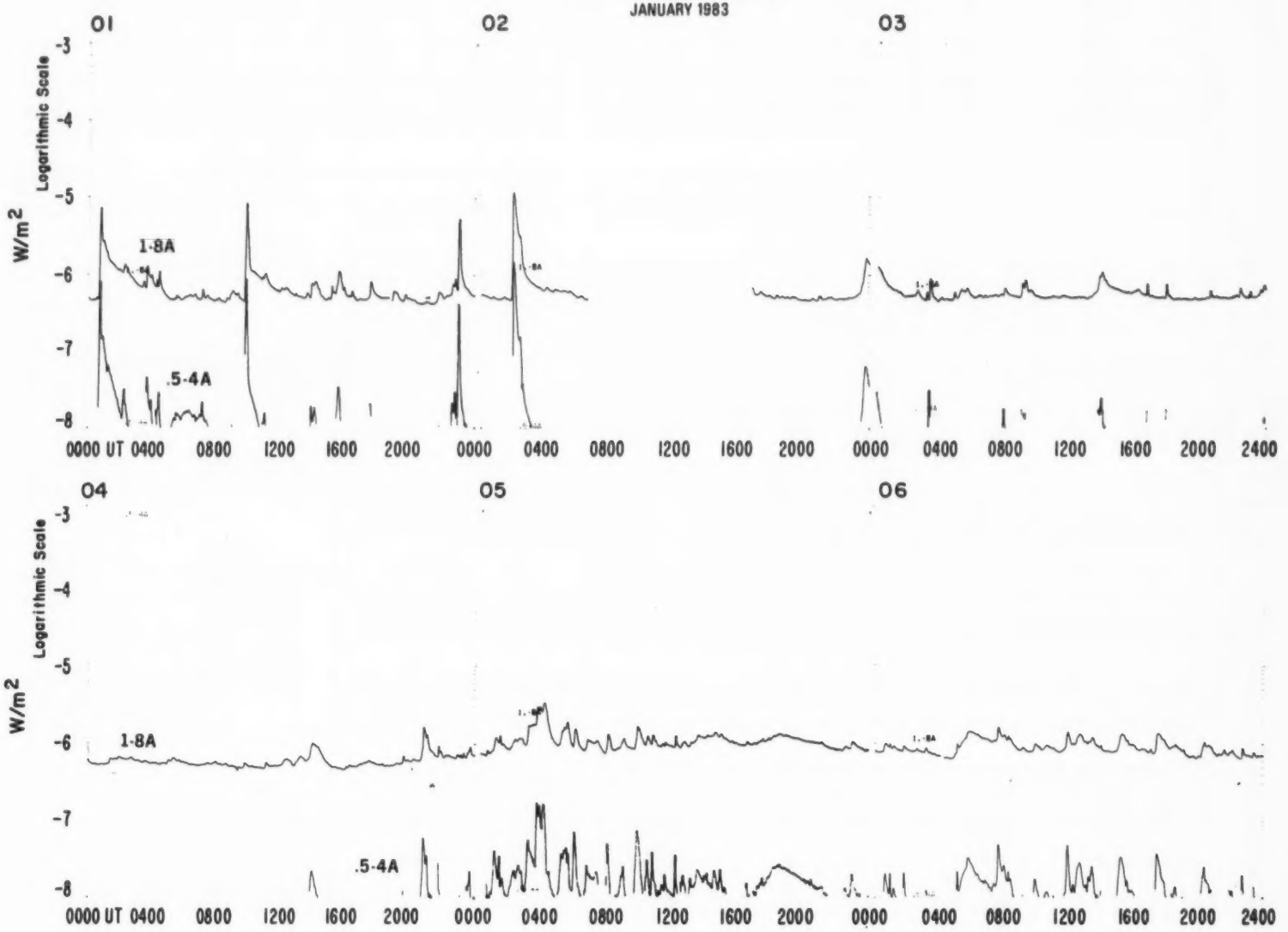
Explanation of Type Code:

1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
33 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise Storm In Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

1A Simple 1A
3A Simple 2A
21A Simple 3A GRF
2A Simple 1AF
4A Simple 2AF
240 Rise only
240F Rise only F
24P Post Rise
24PF Post Rise F
16A Fall A
260 Fall Only
26F Fall F
27F Rise and Fall F
27AF Rise and Fall AF
31A Post Burst Decrease A
32A Absorption A
46F Complex F

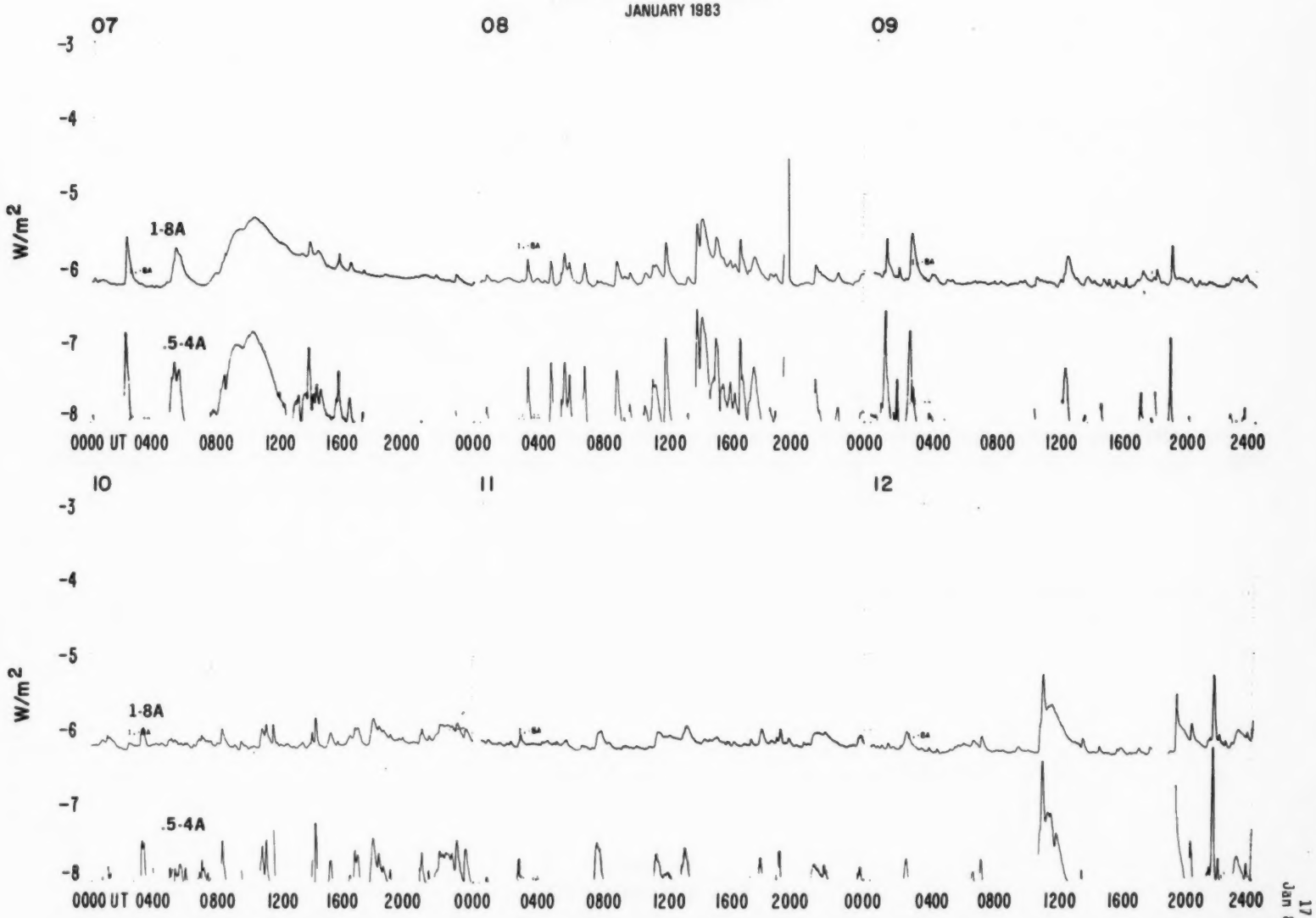
SMS - GOES X-RAYS

JANUARY 1983



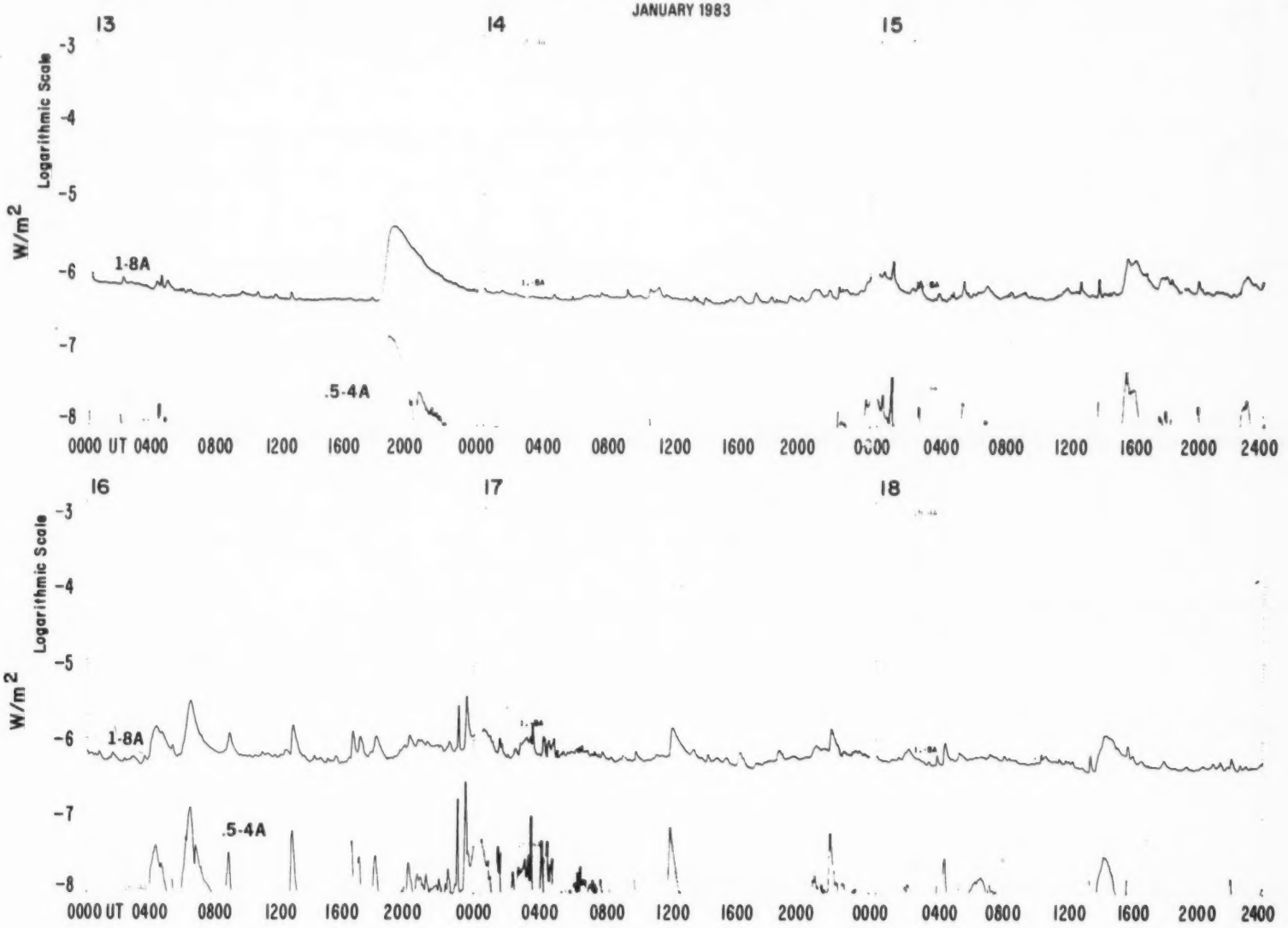
SMS - GOES X-RAYS

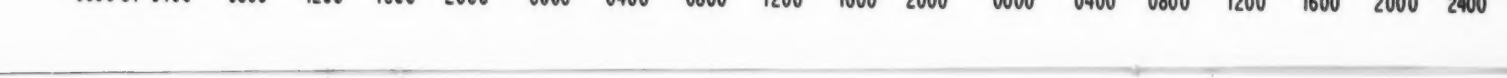
JANUARY 1983



SMS - GOES X-RAYS

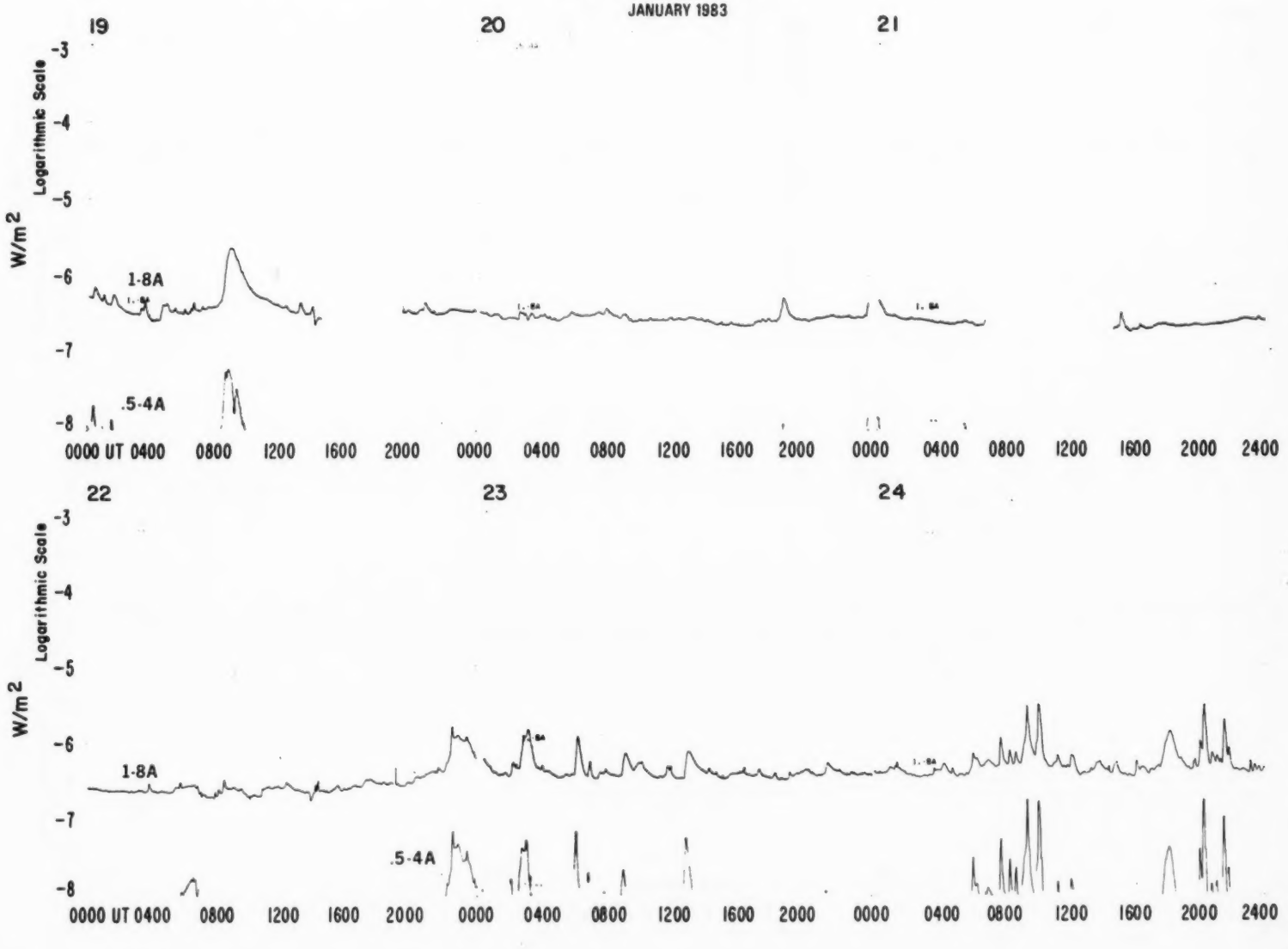
JANUARY 1983





SMS - GOES X-RAYS

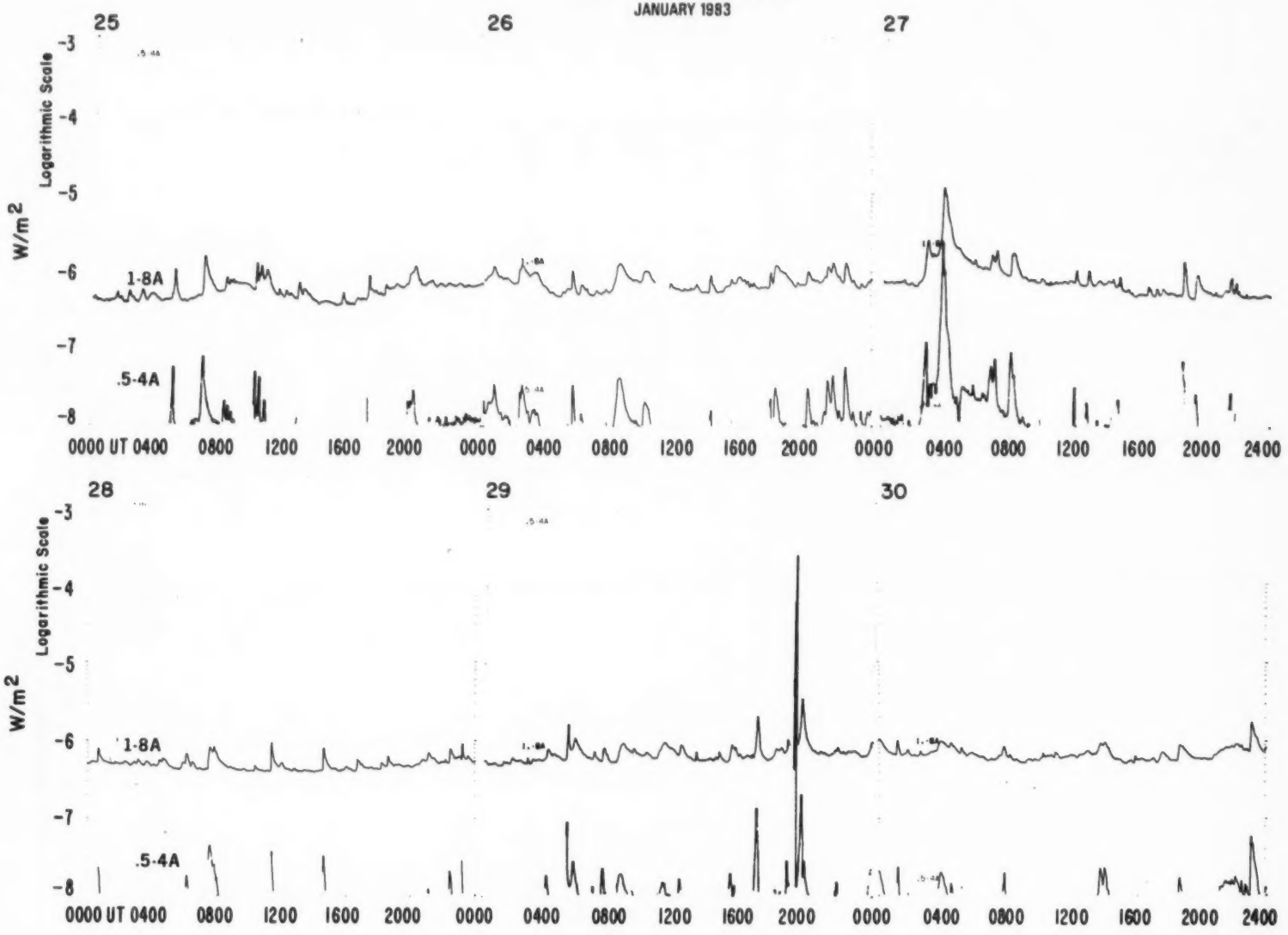
JANUARY 1983



19 Jan 83

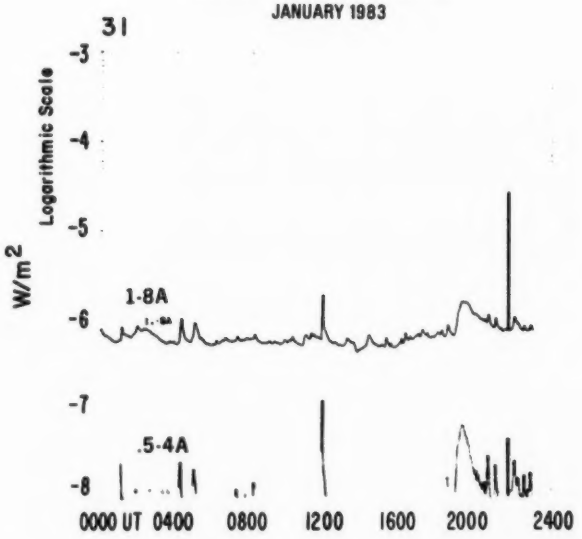
SMS - GOES X-RAYS

JANUARY 1983



SMS - GOES X-RAYS

JANUARY 1983



MASS EJECTIONS FROM THE SUN

January 1983

Sta	Day	Observed UT Start	Max	End	Location RA°	R/R_O	Freq or Wavelength	Kind of Event
CULG	Jan 01	2311.5		2327.5			Meter	II
CULG	Jan 02	0207.5		0210.5			Meter	II
LEAR	Jan 02	0207.6		0211.6			Meter	II
CULG	Jan 15	0052.0		0055.0			Meter	II Harmonic
LEAR	Jan 19	0828.6		0846.0			Meter	II
WEIS	Jan 19	0831.3		0835.8			35-70 MHz	II
WEND	Jan 24	0859 E		0918	081	0.98-1.05	H-alpha	S
KHAR	Jan 25	1016 E		1035 D	105	1.00	H-alpha	S
KHAR	Jan 25	1106 E		1145 D	105	1.00	H-alpha	S
KHAR	Jan 25	1148 E		1200 D	078	0.50	H-alpha	S

QUALIFIERS ON START, MAX AND END TIMES
D = event ended after tabulated time
E = event began before the tabulated time
U = uncertain time

TYPE OF EVENT
A = eruptive active region prominence
CB = coronal cloud bubble
D = coronal depletions
E = coronal enhancement
EL = coronal expanding loop
II = Type II radio burst
IVm = moving Type IV radio burst
Q = eruptive quiescent prominence
R = coronal ray or streamer
S = flare-surge if there is a known flare association
SP = flare-spray if there is a known flare association
* = movement may be caused by ionospheric refraction

REPORTING STATIONS
ABST = Abastumani
BIGB = Big Bear
BLEN = Bleien
CULG = Culgoora
DWIN = Dwingeloo
GEOR = Georgiana
HALE = Haleakala
HARV = Harvard (Fort Davis)
KHAR = Kharkov
LEAR = Learmonth
LVOV = Lvov
MANI = Manila
MITK = Mitaka
PALE = Palehua
SGMR = Sagamore Hill
TELV = Tel Aviv
VORO = Voroshilov
WEIS = Weissenau
WEND = Wendelstein
UDAI = Udaipur

SGD 467 Part II (Comprehensive)

NOVEMBER 1980 DATA

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H - ALPHA SOLAR FLARES

NOVEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
207 YUNN	01	0029	0030	0031	N15	W18	.353	17228	30.7	2	-N	C		129	1.4	
208 LEAR	01	0102	0104	0119	N16	E71	.943	17244	6.4	17	-F	3 C		18		
209 PEKG	01	0133E	0133	0148	N03	E47	.730	17240	4.6	15D	-N	P	0133	42	.6	E
210 YUNN	01	0157	0200	0215	S04	W33	.560	17232	29.6	18	-N	C		161	2.0	E
211 YUNN	01	0200	0205	0215	N23	E41	.691	17236	4.2	15	?N	C		193	2.7	
		IMP.1 NO : VORO MITK														
212 YUNN	01	0219	0220	0222	N21	E44	.717	17236	4.4	3	?N	C		161	2.3	
		IMP.1 NO : VORO MITK														
GRP89213	01	0224>9	0235+2	0248	S16	W48	.784	17226	28.5	24	-F			35	.6	
YUNN	01	0224	0235	0254	S16	W49	.794	17226	28.4	30	-N	C		48	.8	
LEAR	01	0236	0237	0241	S16	W47	.775	17226	28.6	5	-F	3 C		22		
GRP89214	01	0317+4	0321+6	0350	N21	E40	.672	17236	4.1	33	-N					
CULG	01	0317	0327	0400	N21	E40	.672	17236	4.1	43	-N	C	0327	130	1.8	T
LEAR	01	0321	0321	0339	N21	E40	.672	17236	4.1	18	-N	3 C		19		
215 YUNN	01	0347	0354	0405	S05	W35	.603	17232	29.5	18	-N	C		48	.6	E
216 CULG	01	0420	0434	0455	N21	E40	.672	17236	4.2	35	-N	C	0434	120	1.7	T
217 YUNN	01	0426	0428	0430	S16	W50	.804	17226	28.4	4	-N	C		48	.8	D
218 CULG	01	0436	0444	0455	N09	E48	.742	17238	4.8	19	?N	C	0444	250	3.7	F
		IMP.1 NO : MITK YUNN														
219 CULG	01	0505	0508	0517	S16	W48	.784	17226	28.6	12	-F	C	0508	30	.5	
GRP89220	01	0505+0	0516+3	0527	N21	E39	.660	17236	4.1	22	-N					EK
YUNN	01	0505	0519	0535	N21	E39	.660	17236	4.1	30	1N	C		321	4.4	EK
CULG	01	0505	0516U	0530U	N21	E39	.660	17236	4.1	25D	-F	C	0516	90	1.2	T
LEAR	01	0515	0519	0521	N21	E39	.660	17236	4.1	6	-N	3 C		29		
PEKG	01	0523E	0523	0523D	N20	E39	.656	17236	4.1		-N	P	0523	50	.7	E
221 CULG	01	0515	0516	0526	S02	W34	.567	17232	29.7	11	-F	C	0516	30	.4	
GRP89222	01	0517+3	0520+3	0530	N30	E25	.571	17235	3.1	13	-N			130	1.6	EH
CULG	01	0517	0520	0549	N31	E25	.581	17235	3.1	32	-B	C	0520	140	1.7	H
LEAR	01	0519	0522	0530	N30	E25	.571	17235	3.1	11	-N	3 C		128		
YUNN	01	0519	0520	0530	N30	E26	.580	17235	3.2	11	1N	C		193	2.4	
PEKG	01	0520	0523	0530	N29	E25	.561	17235	3.1	10	-F	P	0523	34	.4	E
GRP89223	01	0552+8	0559	0613	N21	E37	.637	17236	4.0	21	-N					
CULG	01	0552	0559	0609	N21	E37	.637	17236	4.0	17	-F	C	0559	50	.7	T
YUNN	01	0600	0614	0616	N21	E38	.649	17236	4.1	16	1N	C		161	2.2	T
GRP89224	01	0559+7	0610+4	0620	N03	E47	.730	17240	4.8	21	-N			110	1.6	K
CULG	01	0559	0613	0644	N03	E48	.742	17240	4.8	45	-N	C	0613	120	1.8	K
YUNN	01	0605	0614	0616	N03	E47	.730	17240	4.8	11	-N	C		113	1.7	
LEAR	01	0606	0610	0620	N02	E46	.719	17240	4.7	14	-F	3 C		37		
225 CULG	01	0628	0631	0638	N21	E39	.660	17236	4.2	10	-F	C	0631	50	.7	T
226 CULG	01	0641	0649	0652	N22	W31	.571	17225	30.0	11	-F	C	0649	40	.5	
227 CULG	01	0649	0650	0653	S02	W34	.567	17232	29.7	4	-F	C	0650	30	.4	
228 YUNN	01	0749	0752	0836	S14	E75	.973	17246	7.0	47	-N	C		48		
229 YUNN	01	0756	0800	0836	N21	E39	.660	17236	4.3	40	1N	C		193	2.7	K
230 YUNN	01	0845	0850	0856	N22	E41	.687	17236	4.4	11	1N	C		193	2.8	
231 YUNN	01	0855	0859	0915	N16	E70	.937	17244	6.6	20	-N	C		48		
	01	1252	1510	NO FLARE PATROL												

H - ALPHA S O L A R F L A R E S

NOVEMBER 1980

	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
232	RAMY	01	1315	1320	1322	S12	E72	.958	17246	7.0	7	-F	3	C				
233	RAMY	01	1316	1321	1324	S16	W53	.831	17226	28.6	8	-F	3	C		26		
234	RAMY	01	1319	1326	1334	N13	W28	.484	17228	30.5	15	-F	3	C		31		
235	RAMY	01	1324	1340	1348	S11	E72	.958	17246	7.0	24	-F	3	C				
236	RAMY	01	1337	1342	1353	N01	E40	.644	17240	4.6	16	-F	3	C		22		
237	RAMY	01	1342	1354	1411	N22	E36	.630	17236	4.3	29	-N	3	C		33		
238	RAMY	01	1349	1409	1417	S12	E71	.953	17246	6.9	28	-N	3	C				
239	RAMY	01	1502	1506	1509	N15	W12	.273	17229	31.7	7	-F	3	C		26		
240	RAMY	01	1503	1506	1511	N02	E42	.669	17240	4.8	8	-F	3	C		40		
GRP89241		01	1615>9	1734+0	1750	N22	E32	.583	17236	4.1	95	-N						
	HOLL	01	1615	1734	1758	N23	E33	.600	17236	4.2	103	-N	3	C		96		
	RAMY	01	1734	1734	1741	N21	E31	.565	17236	4.1	7	-N	3	C		39		
242	RAMY	01	1718	1719	1722	S11	E60	.880	17246	6.2	4	-F	3	C		11		
243	HOLL	01	1735	1735	1749	N13	W32	.541	17228	30.3	14	-F	3	C		21		
244	HOLL	01	1738	1738	1745	N01	E39	.631	17240	4.7	7	-F	3	C		19		
245	HOLL	01	1812	1833	1844	S10	E72	.957	17246	7.2	32	-N	3	C				
246	HOLL	01	1817	1834	1843	N22	E30	.559	17236	4.0	26	-F	3	C		34		
GRP89247		01	1819+7	1826+4	1901	N03	E39	.629	17240	4.7	42	-F				50	.6	
	RAMY	01	1819	1830	1913D	N03	E39	.629	17240	4.7	54D	-F	3	C		122		
	HOLL	01	1825	1826	1901	N03	E40	.642	17240	4.8	36	-N	3	C		50		
	PALE	01	1826	1827	1834	N04	E39	.628	17240	4.7	8	-F	3	C		28		
248	HOLL	01	1841	1842	1845	N18	E60	.867	17244	6.3	4	-N	3	C		15		
GRP89249		01	1856+1	1856+1	1907	N12	E63	.889	17244	6.5	11	-F				20	.4	
	HOLL	01	1856	1856	1905	N14	E62	.881	17244	6.4	9	-N	3	C		23		
	PALE	01	1857	1857	1909	N10	E64	.896	17244	6.6	12	-F	3	C		23		
250	HOLL	01	1908	1913	1925	N23	E33	.600	17236	4.3	17	-F	3	C		33		
251	HOLL	01	1911	1912	1925	N12	W29	.495	17228	30.6	14	-N	3	C		80		
GRP89252		01	1916+1	1919+1	1948	N14	E63	.889	17244	6.5	32	1B				190	4.3	
	BIGB	01	1916	1919	1948	N14	E63	.889	17244	6.5	32	-B	2	C	1919	90	2.0	
	HOLL	01	1916	1919	1948	N17	E64	.898	17244	6.6	32	1B	3	C		191		
	PALE	01	1917	1920	1945	N13	E62	.881	17244	6.5	28	1B	3	C		214		
253	HOLL	01	1943	1946	2008	N03	E38	.615	17240	4.7	25	-N	3	C		44		
254	CULG	01	2101	2104	2120	N20	E28	.521	17236	4.0	19	-F		C	2104	40	.5	
255	HOLL	01	2108	2108	2127	S05	W42	.682	17232	29.7	19	-F	3	C		18		
256	HOLL	01	2118	2122	2132	N14	W33	.558	17228	30.4	14	-F	3	C		22		
257	CULG	01	2122	2125	2134	N21	E26	.503	17236	3.8	12	-F		C	2125	30	.4	
258	CULG	01	2148	2151	2156	S15	W52	.820	17226	29.0	8	-F		C	2151	80	1.4	
GRP89259		01	2153+1	2159+2	2233	N19	W16	.365	17229	31.7	40	-F				70	.8	
	HOLL	01	2153	2159	2230	N19	W16	.365	17229	31.7	37	-F	3	C		65		
	CULG	01	2154	2201	2236	N19	W16	.365	17229	31.7	42	-F		C	2201	70	.8	
260	CULG	01	2154	2210	2236U	N32	E26	.599	17235	3.9	42D	-F		C	2210	140	1.8	
261	CULG	01	2252	2303	2314	N21	E25	.491	17236	3.8	22	-F		C	2303	50	.6	

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262	HOLL	01	2330	2332	2347D	N13	W18	.338	17229	31.6	17D	-N	2	C		88		
GRP89263		01	2331+9	2341+2	2355	N20	E26	.496	17236	3.9	24	-N				70	.8	
	CULG	01	2331	2341	0012	N20	E25	.483	17236	3.9	41	-B	*	C	2341	100	1.2	
	VORO	01	2337	2341	2353	N21	E26	.503	17236	3.9	16	-N	*	C	2341	90	1.1	E
	HOLL	01	2338	2342	2356	N20	E26	.496	17236	3.9	18	-N	*	C		55		
	PALE	01	2340	2343U	2352	N22	E26	.511	17236	3.9	12	-F	*	C		30		D
GRP89264		01	2335+3	2354 2419	0055	S15	W58	.871	17226	28.6	80	-N						DK
	CULG	02	0013	0019	0054	S16	W59	.881	17226	28.6	41	-N		C	0019	80	1.6	KT
	YUNN	02	0045E	0046	0055	S15	W58	.871	17226	28.7	10	-N		C		64	1.4	D
	CULG	01	2335	2419	0059	S15	W58	.871	17226	28.6	84	-N		C	2419	80	1.7	KT
	HOLL	01	2338	2354	2357	S17	W56	.860	17226	28.8	19	-F	3	C		26		
265	CULG	02	0015	0023 IMP.1 NO : MITK VORO	0038U	S12	E63	.904	17246	6.7	23D	?F		C	0023	140	2.8	
266	CULG	02	0027	0028	0039U	N20	E25	.484	17236	3.9	12D	-N		C	0028	80	.9	FT
267	CULG	02	0048	0049	0052	N13	W33	.555	17228	30.6	4	-N		C	0049	70	.8	H
268	CULG	02	0116	0123U	0145	S16	W59	.881	17226	28.6	29	-F		C	0123	40	.8	T
269	CULG	02	0124	0127	0150U	S12	E64	.911	17246	6.9	26D	-F		C	0127	80	1.8	K
270	CULG	02	0130	0131	0144	N16	W37	.618	17228	30.3	14	-F		C	0131	130	1.6	F
271	CULG	02	0135	0139	0142	N04	E30	.499	17240	4.3	7	-F		C	0139	40	.5	T
272	CULG	02	0139	0144	0150	N21	E24	.480	17236	3.9	11	-N		C	0144	110	1.1	T
GRP89273		02	0159+9	0209+2	0228	N21	E25	.492	17236	4.0	29	-N				160	1.9	E
	PEKG	02	0159E	0209	0215D	N21	E25	.492	17236	4.0	16D	1N		C	0209	185	2.1	E
	CULG	02	0206	0210	0235	N21	E25	.492	17236	4.0	29	1B		C	0210	200	2.3	FT
	LEAR	02	0207	0211	0230	N20	E25	.484	17236	4.0	23	-B	3	C		128		
	MITK	02	0207	0211	0226	N22	E24	.488	17236	3.9	19	-N		C				E
	PALE	02	0208	0211U	0222	N21	E24	.480	17236	3.9	14	-N	3	C		106		
274	CULG	02	0210	0216	0230	S16	W60	.889	17226	28.6	20	-F		C	0216	60	1.2	T
275	CULG	02	0226	0228	0230	N03	E31	.514	17240	4.4	4	-F		C	0228	20	.2	T
276	CULG	02	0244	0245	0249	N10	E58	.846	17244	6.5	5	-F		C	0245	20	.3	
277	YUNN	02	0329	0332	0342	S14	W60	.885	17226	28.6	13	-N		C		80	1.7	D
278	YUNN	02	0400	0405	0410	S15	W60	.887	17226	28.7	10	-N		P		48	1.1	E
279	CULG	02	0434	0436	0448U	N04	E33	.543	17240	4.7	14D	-F		C	0436	40	.5	T
GRP89280		02	0436>9	0446+3	0503	S15	W61	.894	17226	28.6	27	-F				50	1.1	E
	CULG	02	0436	0449	0504	S16	W61	.896	17226	28.6	28	-F		C	0449	50	1.0	T
	PEKG	02	0445	0446	0503	S15	W61	.894	17226	28.6	18	-F		C	0446	38	.9	E
	YUNN	02	0447	0448	0501	S15	W63	.909	17226	28.5	14	-N		C		48	1.1	
GRP89281		02	0446+1	0448+0	0458	N18	W38	.637	17225	30.3	12	-N						
	CULG	02	0446	0448	0505	N18	W39	.650	17225	30.3	19	1N		C	0448	190	2.5	
	YUNN	02	0447	0448	0451	N18	W38	.637	17225	30.3	4	-N		C		64	.8	
282	CULG	02	0502	0503	0508	N04	E33	.543	17240	4.7	6	-F		C	0503	70	.8	T
283	CULG	02	0551	0553	0555	N13	W35	.583	17228	30.6	4	-F		C	0553	70	.8	
284	CULG	02	0605U	0606	0615	S12	E60	.882	17246	6.8	10D	-F		C	0606	70	1.6	
285	CULG	02	0609	0613	0620	N20	E31	.559	17236	4.6	11	-N		C	0613	120	1.4	T

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GRP89286	02	0633+4	0637+1	0642	N24	E33	.607	17236	4.7	9	-N			100	1.3	J
CULG	02	0633	0637	0650	N26	E33	.620	17236	4.7	17	-N	C	0637	120	1.4	FT
ABST	02	0635	0637	0642	N24	E34	.619	17236	4.8	7	-F	C	0637	131	1.7	EJ
YUNN	02	0637	0638	0640	N24	E32	.596	17236	4.7	3	-N	C		64	.8	
287 CULG	02	0659	0700	0705	N04	E28	.468	17240	4.4	6	-F	C	0700	70	.8	T
288 YUNN	02	0715	0723	0730	N08	E58	.846	17244	6.7	15	-N	C		48	.9	K
289 YUNN	02	0905	0906	0907	N22	E23	.477	17236	4.1	2	-N	C		48	.6	E
	02	1008	1010	NO FLARE PATROL												
	02	1020	1030	NO FLARE PATROL												
	02	1035	1055	NO FLARE PATROL												
290 ATHN	02	1057	1100	1135D	N22	E20	.442	17236	4.0	38D	-B	2 V	1100	127	1.5	
	02	1215	2034	NO FLARE PATROL												
291 RAMY	02	1242	1250	1251	N06	W28	.468	17231	31.4	9	-F	3 C		47		
292 RAMY	02	1304	1306	1316	S04	W51	.784	17232	29.7	12	-N	3 C		79		
GRP89293	02	1345>9	1419+1	1433	S19	W62	.908	17226	28.9	48	-N			60	1.4	
RAMY	02	1345	1420	1440	S18	W65	.926	17226	28.7	55	-N	3 C		72		
HOLL	02	1419	1419	1426	S20	W59	.889	17226	29.2	7	-B	2 C		47		
294 RAMY	02	1518	1518	1529	N28	E18	.488	17235	4.0	11	-F	3 C		29		
295 HOLL	02	1603	1605	1621	N25	E24	.515	17236	4.5	18	-N	3 C		38		
296 HOLL	02	1615	1617	1633	S05	W51	.786	17232	29.9	18	-F	3 C		49		
297 RAMY	02	1621	1623	1631	N18	W57	.842	17225	29.4	10	-N	3 C		96		
GRP89298	02	1655+0	1655+1	1706	N15	E48	.748	17244	6.3	11	-B			30	.5	
HOLL	02	1655	1655	1705	N16	E48	.749	17244	6.3	10	-B	3 C		20		
RAMY	02	1655	1656	1706	N15	E48	.748	17244	6.3	11	-B	3 C		42		
299 RAMY	02	1708	1714	1721	N18	E06	.257	17237	3.2	13	-F	3 C		30		
GRP89300	02	1749+3	1752+0	1800	S16	W67	.935	17226	28.7	11	-N			40		
RAMY	02	1749	1752	1800	S16	W69	.946	17226	28.6	11	-N	3 C		48		
HOLL	02	1752	1752	1759	S17	W66	.931	17226	28.8	7	-N	3 C		30		
301 HOLL	02	1753	1801	1836	S11	E55	.837	17246	6.9	43	-F	3 C		31		
302 HOLL	02	1852	1854	1857	N23	E25	.508	17236	4.7	5	-F	3 C		26		
303 HOLL	02	1905	1910	1922	S17	W68	.942	17226	28.7	17	-N	3 C		30		
304 HOLL	02	1908	1915	1931	N04	E21	.357	17240	4.4	23	-N	3 C		47		
305 HOLL	02	1947	1947	1956	N23	E19	.442	17236	4.2	9	-N	3 C		24		
306 CULG	02	2039	2040	2042	N22	E18	.420	17236	4.2	3	-F	C	2040	40	.4	
	02	2057	2113	NO FLARE PATROL												
307 CULG	02	2113E	2113U	2118	N22	E20	.442	17236	4.4	5D	-F	P	2113	50	.6	
308 CULG	02	2130	2132	2138	N03	E22	.374	17240	4.5	8	-F	C	2132	30	.3	
309 CULG	02	2134	2136	2147	N08	E48	.741	17244	6.5	13	-F	C	2136	30	.5	
310 CULG	02	2135	2138	2144	S12	E51	.801	17246	6.7	9	-N	C	2138	80	1.4	
311 CULG	02	2158	2204	2204D	N04	E18	.308	17240	4.3	6D	-N	P	2204	60	.6	
	02	2204	2300	NO FLARE PATROL												

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312 HOLL	02	2230	2230	2235	S10	E49	.776	17246	6.6	5	-F	3 C		20		
GRP89313	02	2230	2241 2248	2312	N04	E18	.308	17240	4.3	42	-F					
HOLL	02	2230	2241	2258	N05	E18	.308	17240	4.3	28	-N	3 C		31		
LEAR	02	2236E	2248	2325	N04	E19	.325	17240	4.4	49D	-F	2 C		48		
314 VORO	02	2304	2306	2311	N08	E47	.730	17244	6.5	7	-F	C	2306	36	.5	D
GRP89315	02	2330+9	2338+1	2345	N22	E17	.410	17236	4.3	15	-F			35	.4	
HOLL	02	2330	2338	2339D	N22	E17	.410	17236	4.3	9D	-N	2 C		43		
PALE	02	2339	2339	2345	N23	E18	.431	17236	4.3	6	-F	2 C		27		
316 HOLL	02	2337	2337	2339D	N09	E47	.730	17244	6.5	2D	-F	2 C		22		
317 LEAR	02	2346	2348	2358	S17	W69	.947	17226	28.8	12	-F	3 C		11		
GRP89318	02	2352+4	0002+2	0025	N04	E17	.292	17240	4.3	33	1B			250	2.6	GHU
PEKG	03	0000	0003	0020	N04	E17	.292	17240	4.3	20	1B	C	0003	302	3.3	F
CULG	03	0000E	0000U	0000D	N05	E18	.308	17240	4.3		1B	P	0000	270	2.8	
VORO	02	2352	2402	0026	N06	E18	.309	17240	4.3	34	-N	C	2402	134	1.4	EHG
MITK	02	2355	2404	0031	N04	E17	.292	17240	4.3	36	1N	C		270		FHU
PALE	02	2355	2402	0026	N05	E18	.308	17240	4.3	31	1B	2 C		208		D
LEAR	02	2356	2402	0023	N04	E17	.292	17240	4.3	27	1B	3 C		256		
319 VORO	03	0116	0118	0124	N14	E48	.747	17244	6.7	8	-N	C	0118	90	1.6	EG
GRP89320	03	0146+2	0149+1	0204	N14	W51	.779	17228	30.2	18	1F					E
VORO	03	0146	0149	0158	N14	W50	.769	17228	30.3	12	-F	C	0149	90	1.6	E
MITK	03	0148	0150	0209	N15	W52	.791	17228	30.2	21	1F	C		210		E
YUNN	03	0156E	0156	0156D	N10	W51	.776	17228	30.3		1N	P		128	2.1	B
GRP89321	03	0158+1	0203+1	0234	N17	E44	.707	17244	6.4	36	1B					HK
VORO	03	0158	0204	0236	N17	E43	.695	17244	6.3	38	1N	C	0204	179	2.4	EH
MITK	03	0159	0203	0232	N17	E45	.718	17244	6.5	33	2B	C		610		FHK
GRP89322	03	0310+9	0320+5	0335	N23	E18	.432	17236	4.5	25	-B					EK
MITK	03	0310	0325	0340	N24	E18	.443	17236	4.5	30	-B	C				E
YUNN	03	0319	0320	0330	N23	E18	.432	17236	4.5	11	1N	C		193	2.2	EK
GRP89323	03	0330+0	0336+5 0350	0400	N04	E17	.292	17240	4.4	30	1B			240	2.5	HKUW
PEKG	03	0330	0341	0355	N04	E17	.292	17240	4.4	25	1B	C	0342	210	2.3	E
MITK	03	0330	0336	0400D	N03	E17	.293	17240	4.4	30D	1B	C		280		FHU
YUNN	03	0350	0350	0400	N04	E18	.308	17240	4.5	10	1N	C		353	3.8	KW
324 YUNN	03	0702	0705	0709	N05	E13	.225	17240	4.3	7	-N	C		32	.4	D
GRP89325	03	0734+2	0739+0	0744	S17	W78	.984	17226	28.5	10	-N			70		DJ
YUNN	03	0734	0739	0746	S17	W80	.990	17226	28.3	12	-N	C		48		
ABST	03	0736	0739	0742	S17	W76	.978	17226	28.6	6	1F	C	0738	87		DJ
GRP89326	03	0750+2	0750 0759+1	0814	N20	E09	.310	17236	4.0	24	-F			100	1.1	J
ABST	03	0639	0644	0952	N20	E13	.346	17236	4.3	193	-F	* C	0644	114	1.2	FJ
CATA	03	0750	0750	0815D	N20	E08	.303	17236	3.9	25D	-F	* P	0750	140	1.5	
ABST	03	0751	0759	0801	N20	E09	.310	17236	4.0	10	-N	* P	0759	114	1.2	EJ
YUNN	03	0752	0800	0813	N21	E09	.325	17236	4.0	21	-N	* C		96	1.1	
327 CATA	03	1115	1120	1120D	S19	W80	.990	17226	28.5	5D	-F	2 P	1120	28		
GRP89328	03	1200+6	1200 1207+0	1217	N04	E11	.190	17240	4.3	17	-N			90	.9	E
CATA	03	1200	1200	1215	N03	E10	.175	17240	4.2	15	-F	2 C	1200	112	1.2	
KHAR	03	1201		1201	N04	E10	.173	17240	4.3		-N	P	1201	70	.7	E
ATHN	03	1204E	1207	1224	N05	E17	.411	17240	4.8	20D	-B	3 V	1207	32	.4	
WEND	03	1206	1207	1219	N04	E12	.207	17240	4.4	13	-N	C	1207	44	.5	
GRP89329	03	1352+4	1358+4	1431	N04	E15	.258	17240	4.7	39	1B			210	2.2	E
WEND	03	1352	1402	1431	N05	E13	.225	17240	4.6	39	-B	C	1402	163	1.7	E
ATHN	03	1356	1358	1400D	N04	E17	.400	17240	4.9	4D	1B	3 V	1358	255	2.9	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp		Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
	03	1456	2010	NO FLARE PATROL													
330 CULG	03	2031	2035	2050	N05	E04	.071	17240	4.2	19	-F		C	2035	100	1.0	
331 CULG	03	2033	2043	2125U	N11	E29	.493	17244	6.0	52D	-N		C	2043	160	1.8	
	03	2051	2103	NO FLARE PATROL													
332 CULG	03	2103	2114	2124	N19	W60	.869	17225	30.4	21	-F		C	2114	60	1.3	
333 CULG	03	2119U	2124	2125D	N02	E05	.095	17240	4.3	6D	-B		C	2124	120	1.2	H
	03	2125	2138	NO FLARE PATROL													
334 CULG	03	2138	2147	2225	N10	E20	.353	17238	5.4	47	-F		C	2147	120	1.3	
335 CULG	03	2144	2152	2210	N16	W45	.716	17229	31.5	26	-F		C	2152	50	.7	
336 CULG	03	2159	2202	2212	S11	E36	.628	17246	6.6	13	-B		C	2202	100	1.3	T
337 CULG	03	2202	2209	2219	N21	E01	.290	17236	4.0	17	-N		C	2209	130	1.4	
338 CULG	03	2216U	2230	2333	N01	E09	.166	17240	4.6	77D	-F		C	2230	140	1.4	F
339 CULG	03	2234	2238	2239	N12	E34	.567	17244	6.5	5	-N		C	2238	50	.6	K
GRP89340	03	2307	2337	0006D	N25	E02	.357	17236	4.1	59	-N						
CULG	03	2307	2337	0006U	N24	E06	.642	17236	4.4	59D	-F		C	2337	120	1.3	
CULG	03	2334	2337	2344	N26	W02	.373	17236	3.8	10	-N		C	2337	140	1.5	
341 CULG	03	2344	2348	2356	N05	E04	.071	17240	4.3	12	-F		C	2348	70	.7	
342 CULG	03	2346	2400	0019	N09	E25	.427	17244	5.9	33	-N		C	2400	150	1.7	L
343 CULG	04	0021	0027	0051	N16	W45	.716	17229	31.6	30	-N		C	0027	110	1.5	
GRP89344	04	0106+2	0110+2	0147	N05	E05	.088	17240	4.4	41	1B				370	3.7	FJU
CULG	04	0106	0112	0201	N05	E05	.088	17240	4.4	55	1B		C	0112	360	3.6	UFJ
MITK	04	0108	0110	0132	N06	E05	.088	17240	4.4	24	1B		C		340		F
YUNN	04	0112E	0112	0147	N05	E05	.088	17240	4.4	35D	1N		P		401	4.2	B
345 YUNN	04	0211	0222	0243	S11	E90	1.000	17255	10.8	32	?N		C		64		A
			IMP.1 NO : CULG MITK														
346 CULG	04	0234	0239	0259	S12	E33	.595	17246	6.6	25	-N		C	0239	40	.5	
347 CULG	04	0245	0258	0313	N08	E32	.531	17244	6.5	28	-F		C	0258	40	.6	
348 CULG	04	0255	0300	0344	N23	E02	.326	17236	4.3	49	-N		C	0300	120	1.3	F
349 CULG	04	0256	0304	0313	N02	E01	.040	17240	4.2	17	-F		C	0304	40	.4	
350 CULG	04	0314	0318	0327	N02	E01	.040	17240	4.2	13	-N		C	0318	60	.6	H
351 CULG	04	0341	0352	0413	N22	E01	.308	17236	4.2	32	-N	*	C	0352	80	.8	
352 CULG	04	0421	0422	0424	N12	E30	.511	17244	6.4	3	-N		C	0422	20	.2	T
GRP89353	04	0503>9	0514+0	0524	N24	E03	.344	17236	4.4	21	-B				170	1.8	
CULG	04	0503	0514	0530	N25	E03	.360	17236	4.4	27	-N		C	0514	150	1.6	
YUNN	04	0513	0514	0517	N24	E03	.344	17236	4.4	4	1B		C		193	2.1	
GRP89354	04	0731+3	0733+2	0753	N21	W03	.295	17236	4.1	22	1N						EJ
ABST	04	0731	0733	0801	N22	W05	.318	17236	3.9	30	1N		C	0733	279	3.0	EJ
ATHN	04	0732	0734	0753	N21	E02	.293	17236	4.5	21	-B	3	V	0734	80	.9	
ABST	04	0732	0734	0803	N22	E03	.311	17236	4.5	31	-F		C	0734	87	.9	DJ
YUNN	04	0734	0735	0753	N22	W05	.318	17236	3.9	19	2B		C		610	6.7	
CATA	04	0735E	0735	0735D	N21	W05	.302	17236	3.9		1F	2	P	0735	197	2.1	
355 ATHN	04	1104	1107	1136	N20	E02	.276	17236	4.6	32	-B	3	V	1107	111	1.2	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
356 RAMY	04	1246	1248	1311	N06	W02	.048	17240	4.4	25	1B	3	C		253		D
357 ATHN	04	1337	1340	1350	N13	E30	.514	17244	6.8	13	-B	3	V	1340	32	.4	
358 RAMY	04	1352	1359	1406	S11	E30	.551	17246	6.8	14	-F	3	C		33		
359 ATHN	04	1355	1357	1400D	N13	E30	.514	17244	6.8	5D	-N	3	V	1357	48	.6	
	04	1400	1504	NO FLARE PATROL													
GRP89360	04	1429>9	1508+0	1545D	N22	W09	.341	17236	3.9	76	1B				250	2.7	D
RAMY	04	1429	1508	1649	N22	W09	.341	17236	3.9	140	1B	3	C		247		D
BIGB	04	1506	1508	1545	N22	W09	.341	17236	4.0	39	-B	2	C	1508	110	1.1	
HOLL	04	1506E	1508	1545D	N23	W08-	.349	17236	4.0	39D	1B	3	C		250		
361 RAMY	04	1618	1619	1626	S10	E26	.492	17246	6.6	8	-F	3	C		62		
GRP89362	04	1625+1	1626+4	1646	N04	W07	.122	17240	4.2	21	-N				60	.6	
HOLL	04	1625	1626	1629D	N04	W06	.104	17240	4.2	4D	-N	3	C		41		
BIGB	04	1626	1630	1646	N04	W08	.139	17240	4.1	20	-N	2	C	1630	60	.6	
RAMY	04	1626	1630	1646	N05	W07	.123	17240	4.2	20	-N	3	C		78		
363 HOLL	04	1710	1710	1736	N04	W02	.035	17240	4.6	26	-N	3	C		81		
GRP89364	04	1813+0	1816+0	1822	S11	E25	.486	17246	6.6	9	-N				90	1.0	
HOLL	04	1813	1816	1822	S11	E26	.499	17246	6.7	9	-N	3	C		93		
BIGB	04	1813	1816	1822	S12	E25	.494	17246	6.6	9	-N	2	C	1816	90	1.0	
365 HOLL	04	1831	1832	1840	N21	W08	.319	17236	4.2	9	-N	3	C		39		
GRP89366	04	1954+0	1957+0	2006	N15	E17	.342	17244	6.1	12	-F				70	.7	
BIGB	04	1954	1957	2006	N14	E18	.347	17244	6.2	12	-F	2	C	1957	70	.8	
PALE	04	1954	1957	2006	N16	E17	.350	17244	6.1	12	-F	3	C		70		
367 PALE	04	2006	2007	2015	N25	W06	.370	17236	4.4	9	-F	3	C		23		
368 LEAR	04	2226	2227	2235	N08	W59	.855	17231	31.5	9	-F	3	C		34		
369 LEAR	04	2249	2254	2303	S19	E56	.864	17251	9.2	14	-F	3	C		23		
370 LEAR	04	2249	2301	2308	N15	E16	.328	17244	6.2	19	-F	3	C		34		
	04	2347	0000	NO FLARE PATROL													
371 LEAR	05	0009	0010	0016	N10	E23	.400	17244	6.7	7	-N	3	C		44		
372 LEAR	05	0119	0121	0135	N01	W05	.101	17240	4.7	16	-F	3	C		44		
GRP89373	05	0246+1	0248+0	0255	S12	E20	.431	17246	6.6	9	-N						DG
VORO	05	0246	0248	0253	S12	E19	.419	17246	6.5	7	-F		C	0248	22	.2	DG
LEAR	05	0247	0248	0257	S12	E21+	.443	17246	6.7	10	-B	3	C		69		D
374 YUNN	05	0305	0307	0315	N08	E18	.315	17244	6.5	10	-N		P		161	1.8	
GRP89375	05	0424+9	0437+4 0447	0455	S08	E90	1.000	17255	11.9	31	1N						A
YUNN	05	0424	0441	0521	S08	E90	1.000	17255	11.9	57	2N		C		193		A
PEKG	05	0433	0437	0455	S08	E90	1.000	17255	11.9	22	-N		P	0437	42		
LEAR	05	0441E	0447	0451	S07	E90	1.000	17255	11.9	10D	-F	3	C				
GRP89376	05	0447+6	0456 0508+5	0518	N14	E13	.280	17244	6.2	31	1N						E
LEAR	05	0447	0508	0522	N15	E12	.278	17244	6.1	35	1N	3	C		234		
CULG	05	0453	0456	0500U	N10	E21	.369	17244	6.8	7D	-F		C	0456	60	.7	
YUNN	05	0505	0508	0515	N13	E14	.284	17244	6.3	10	1N		C		193	2.1	E
PEKG	05	0507E	0507	0507D	N14	E12	.267	17244	6.1		1N		P	0507	252	2.7	F
PEKG	05	0511	0513	0518	N15	E11	.266	17244	6.0	7	-B		P		139	1.5	E
377 YUNN	05	0645	0649	0654	S18	E50	.809	17251	9.0	9	-F		V		32	.6	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP89378	05	0807+3	0808 0820	0827	N13	E20	.370	17244	6.8	20	-F					E
LEAR	05	0807	0808	0829	N13	E20	.370	17244	6.8	22	-N	3 C		25		
YUNN	05	0810	0820	0825	N14	E20	.377	17244	6.8	15	-F	C		16	.2	E
379 YUNN	05	0815	0830	0854	S12	E85	.998	17255	11.7	39	-N	C		32		
GRP89380	05	0857+6	0859 0907	0950	S13	E85	.998	17255	11.7	53	-N					A
ATHN	05	0857E	0859	1005	S14	E85	.998	17255	11.7	68D	-B	3 V	0859	64		
LEAR	05	0903	0907	0910	S12	E78	.982	17255	11.2	7	-N	3 C				
YUNN	05	0918	0935	0950	S13	E90	1.000	17255	12.1	32	1N	C		96		A
GRP89381	05	1031+2	1035	1043	N02	W12	.210	17240	4.5	12	-F			30	.3	E
WEND	05	1031	1035	1044D	N02	W14	.244	17240	4.4	13D	-F	C	1035	44	.5	E
ATHN	05	1033		1041	N03	W11	.191	17240	4.6	8	-N	3 V	1033	19	.2	
	05	1047	1056	NO FLARE PATROL												
382 ATHN	05	1054	1059	1124	N03	W11	.191	17240	4.6	30	-B	3 V	1059	48	.5	
383 ATHN	05	1057	1106	1157	S14	E85	.998	17255	11.8	60	-B	3 V	1100	64		
384 ATHN	05	1106	1109	1121	N13	E16	.312	17244	6.7	15	-N	3 V	1109	32	.4	
385 ATHN	05	1218	1220	1229	S18	E54	.844	17251	9.6	11	-N	3 V	1220	19	.4	
386 ATHN	05	1309	1312	1334	S14	E85	.998	17255	11.9	25	*-B	3 V	1312	48		
387 RAMY	05	1323	1324	1340	N11	E18	.328	17244	6.9	17	-F	3 C		21		
GRP89388	05	1333	1346+3	1401	S12	E80	.988	17255	11.6	28	1B			100		
RAMY	05	1333	1346	1348D	S06	E71	.949	17255	10.9	15D	1B	3 C		134		
ATHN	05	1346E	1349	1400	S14	E85	.998	17255	11.9	14D	1B	3 V	1349	80		
HTPR	05	1400E		1401D	S12	E80	.988	17255	11.6	1D	1B	C	1401	100		
	05	1401	1424	NO FLARE PATROL												
GRP89389	05	1414E	1421	1508	S11	E78	.982	17255	11.4	54	2B					
HOLL	05	1414E	1421U	1508	S11	E77	.978	17255	11.4	54D	2B	3 C				
HTPR	05	1424E		1437D	S12	E80	.988	17255	11.6	13D	-N	C	1424	50		
390 HTPR	05	1424E		1433	N01	W20	.345	17240	4.1	9D	-F	C	1424	40	.4	
	05	1437	1446	NO FLARE PATROL												
391 RAMY	05	1451	1453	1500	S18	W70	.953	17252	31.4	9	-F	3 C		17		
	05	1453	1509	NO FLARE PATROL												
GRP89392	05	1603+0	1641+0'	1740	N10	E09	.187	17244	6.3	97	1B					
BIGB	05	1603	1641	1740	N10	E09	.187	17244	6.3	97	1B	2 C	1641	210	2.2	
HOLL	05	1603	1641	1740	N08	E11	.202	17244	6.5	97	1B	3 C		435		D
HOLL	05	1603	1640	1640D	N13	E09	.219	17244	6.3	37D	1B	3 C		324		
393 HOLL	05	1607	1613	1718	S11	E13	.339	17246	6.6	71	-N	3 C		66		
394 HOLL	05	1703	1705	1712	N04	E21	.358	17253	7.3	9	-N	3 C		43		
395 HOLL	05	1711	1711	1727	S10	E74	.966	17255	11.3	16	-N	3 C				
GRP89396	05	1805+0	1834 1955+2	2003D	S18	E45	.760	17251	9.1	118	-N					
HOLL	05	1805	1957	2135	S18	E45	.760	17251	9.1	210	-B	3 C		125		
PALE	05	1805	1834	1849	S18	E45	.760	17251	9.1	44	-N	2 C		41		
PALE	05	1954	1955	2003	S18	E44	.750	17251	9.1	9	-F	2 C		40		
397 PALE	05	1812	1812	1827	N25	W18	.457	17236	4.4	15	-F	2 C		23		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP89398	05	1838>9	1941+3	1953	S09	E76	.974	17255	11.5	75	-N						
HOLL	05	1838	1941	1942D	S09	E76	.974	17255	11.5	64D	-B	3	C				
PALE	05	1937	1944	1953	S09	E76	.974	17255	11.5	16	-F	2	C				
399 CULG	05	2031	2033	2043	N22	W17	.413	17236	4.6	12	-F		C	2033	30	.3	
400 CULG	05	2031	2043	2105U	S20	E42	.740	17251	9.0	34D	?N		C	2043	200	3.0	KFT
			IMP.1 NO : HOLL BIGB PALE														
401 CULG	05	2045	2046	2048	N11	E09	.197	17244	6.5	3	-N		C	2046	30	.3	
402 CULG	05	2054	2104U	2122D	N02	W18	.310	17240	4.5	28D	-F		P	2104	120	1.3	F
GRP89403	05	2141	2231+1	2325	S20	E43	.750	17251	9.1	104	-N						FK'
HOLL	05	2141	2231	2351D	S18	E43	.740	17251	9.1	130D	-B	3	C		87		
CULG	05	2218U	2231	2325	S20	E42	.740	17251	9.1	67D	1N		C	2231	160	2.4	KTF
LEAR	05	2230	2232	2235	S20	E44	.759	17251	9.2	5	-F	3	C		23		
404 HOLL	05	2144	2158	2237	S18	W73	.967	17252	31.4	53	-F	3	C				
405 HOLL	05	2157	2157	2225	N21	W23	.471	17236	4.2	28	-N	3	C		27		
GRP89406	05	2225+1	2234+1	2331	N10	E07	.160	17244	6.5	66	1B						G
CULG	05	2225	2235	2320U	N10	E07	.160	17244	6.5	55D	2B		C	2235	620	6.2	TF
LEAR	05	2226	2234	2325	N10	E08	.173	17244	6.5	59	1B	2	C		243		D
BIGB	05	2226	2234	2237	N10	E08	.173	17244	6.5	11	1B	3	C	2234	200	2.1	
PALE	05	2226E	2234	2355D	N11	E07	.171	17244	6.5	89D	1B	2	C		212		D
HOLL	05	2237E	2237	2351D	N10	E07	.160	17244	6.5	74D	1B	3	C		446		
VORO	05	2254E		2326D	N10	E08	.173	17244	6.6	32D	-N		P	2254	179	1.9	EG
GRP89407	05	2253+0	2258+4	2312	S12	E72	.958	17255	11.4	19	1N				90		
LEAR	05	2253	2302	2310	S12	E72	.958	17255	11.4	17	-B	3	C				
CULG	05	2253	2302	2313U	S14	E73	.964	17255	11.4	20D	1N		P	2302	80		FT
HOLL	05	2258E	2258	2324	S10	E70	.946	17255	11.2	26D	1B	3	C		107		
VORO	05	2301	2302	2307	S12	E72	.958	17255	11.4	6	-N		C	2302	68		E
408 CULG	05	2257	2258	2302	N03	W21	.358	17240	4.4	5	-F		C	2258	80	.8	
GRP89409	05	2259+1	2317+2	2334	N22	W21	.457	17236	4.4	35	-F						FK
HOLL	05	2259	2319	2335	N20	W21	.438	17236	4.4	36	-N	3	C		70		
CULG	05	2300	2317	2322	N25	W20	.477	17236	4.5	22	-F		C	2317	120	1.3	FK
LEAR	05	2317	2318	2334	N22	W22	.468	17236	4.3	17	-F	3	C		27		
GRP89410	05	2305+4	2310+2	2320	S18	W73	.967	17252	31.5	15	-N						D
LEAR	05	2305	2311	2318	S18	W76	.978	17252	31.3	13	-B	3	C				
HOLL	05	2306	2312	2320	S18	W73	.967	17252	31.5	14	-B	3	C				D
CULG	05	2309	2310	2320	S15	W73	.965	17252	31.5	11	-F		C	2310	20		
411 CULG	05	2316	2318	2323	S11	E79	.985	17255	11.9	7	-F		C	2318	10		T
GRP89412	05	2325>9	2332 2344	2349	S12	E69	.942	17255	11.2	24	-N						
HOLL	05	2325	2332	2342D	S11	E68	.935	17255	11.1	17D	1N	3	C		117		
LEAR	05	2342	2344	2349	S13	E70	.948	17255	11.2	7	-N	3	C		24		
GRP89413	05	2343	2347+4	0012	N10	E06	.147	17244	6.4	29	-N						E
LEAR	05	2343	2347	0013D	N10	E07	.160	17244	6.5	30D	-N	*	C		80		
YUNN	05	2350E	2351	0010	N10	E06	.147	17244	6.4	20D	-N	*	C		193	2.0	E
414 CULG	05	2355	2357	0006	N15	W68	.925	17229	31.9	11	-F		C	2357	60		
415 CULG	06	0023	0026	0031	S11	E73	.962	17255	11.5	8	-F		C	0026	60		T
416 CULG	06	0023	0026	0034	N26	W19	.479	17236	4.6	11	-N		C	0026	160	1.8	
GRP89417	06	0027+0	0028+5 0040	0056	S20	E42	.739	17251	9.2	29	-N						EK
VORO	06	0027	0030	0036	S20	E44	.759	17251	9.3	9	-N	*	C	0030	90	1.3	E
MITK	06	0027	0028	0055	S21	E43	.754	17251	9.2	28	-N	*	C				E
YUNN	06	0027	0040	0056	S20	E42	.739	17251	9.2	29	-F	*	C		129	2.0	
CULG	05	2348	2433U	0130U	S20	E41	.730	17251	9.1	102D	1N	*	C	2433	300	4.2	TFK

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418 YUNN	06	0038	0045	0100	N10	E08	.174	17244	6.6	22	-N		C		48	.5	
GRP89419	06	0050+5	0100+1 0117	0130	N26	W22	.508	17236	4.4	40	2N				500	5.9	F
CULG	06	0050	0100	0145	N27	W23	.528	17236	4.3	55	2N		C	0100	920	10.5	F
YUNN	06	0052	0100	0130	N26	W22	.508	17236	4.4	38	2B		C		498	6.0	
MITK	06	0055	0101	0110	N27	W22	.519	17236	4.4	15	1N		C		350		F
MITK	06	0115	0117	0127	N24	W23	.499	17236	4.3	12	-N		C				E
420 CULG	06	0059	0101	0105	S10	E06	.261	17246	6.5	6	-N		C	0101	90	.9	
421 YUNN	06	0100	0108	0113	S13	E70	.948	17255	11.3	13	-N		C		32		
GRP89422	06	0108+0	0113+2	0123D	N10	E08	.174	17244	6.6	15	-B						E I
YUNN	06	0108	0115	0209	N10	E08	.174	17244	6.6	61	1N		C		209	2.2	
MITK	06	0108	0113	0123	N10	E08	.174	17244	6.6	15	-B		C				E I
423 YUNN	06	0108	0118	0121	S22	E42	.749	17251	9.2	13	-F	*	C		48	.7	
424 CULG	06	0119	0122	0135	N02	W21	.359	17240	4.5	16	?F		C	0122	300	3.3	F
			IMP.1 NO : MITK YUNN														
GRP89425	06	0128	0148+2 0157	0228	S12	E72	.958	17255	11.5	60	1N						E K
YUNN	06	0128	0148	0225	S12	E72	.958	17255	11.5	57	-N		C		48		E K
CULG	06	0133U	0150U	0215U	S14	E70	.949	17255	11.3	42D	1N		C	0150	200		T F
MITK	06	0145	0157	0231	S12	E72	.958	17255	11.5	46	1N		C		110		E
426 YUNN	06	0228	0230	0243	N09	E06	.137	17244	6.6	15	-N		C		177	1.8	K
GRP89427	06	0230+0	0238+5	0305	S13	E72	.958	17255	11.5	35	1N				130		E K
CULG	06	0230	0243	0305U	S14	E70	.949	17255	11.4	35D	1N		C	0243	180		T K
YUNN	06	0230	0238	0305	S13	E72	.958	17255	11.5	35	1N		C		96		
MITK	06	0240	0243	0303	S12	E72	.958	17255	11.5	22	1N		C		120		E
428 CULG	06	0233	0241	0250	N21	W23	.472	17236	4.4	17	-N		C	0241	150	1.7	
GRP89429	06	0240>9	0256 0313	0318	N03	W21	.358	17240	4.5	38	-F						U
CULG	06	0240U	0313U	0330U	N04	W21	.358	17240	4.5	50D	-F		C	0313	140	1.5	U
YUNN	06	0252	0256	0305	N02	W22	.375	17240	4.5	13	-N		C		64	.7	
430 CULG	06	0243	0247	0259	S20	E40	.719	17251	9.1	16	?N		C	0247	180	2.5	T
			IMP.1 NO : MITK YUNN														
431 YUNN	06	0300	0305	0335	S16	W80	.989	17252	31.1	35	-N		C		32		
432 CULG	06	0313	0317	0340	N21	W23	.472	17236	4.4	27	-N		C	0317	100	1.1	
433 CULG	06	0320U	0322U	0330U	N10	E05	.137	17244	6.5	10D	-N		C	0322	180	1.8	T
GRP89434	06	0326+9	0340+8 0401	0454	S13	E70	.948	17255	11.4	88	2N						I K U W
YUNN	06	0326	0347	0447	S12	E70	.948	17255	11.4	81	3N		C		562		K
CULG	06	0327	0401	0515U	S14	E70	.949	17255	11.4	108D	2B		C	0401	360		T F I W
MITK	06	0335	0348	0500	S13	E72	.958	17255	11.5	85	3N		C		570		U
PEKG	06	0335	0340	0428	S13	E68	.937	17255	11.2	53	1N		P	0351	126		E
435 CULG	06	0350	0409	0450	N04	W21	.358	17240	4.6	60	-F		C	0409	180	2.0	U
GRP89436	06	0450+3	0458+2	0510	N07	E11	.197	17244	7.0	20	-N				170	1.7	E
YUNN	06	0450	0458	0505	N10	E05	.137	17244	6.6	15	-N		C		161	1.7	E
CULG	06	0450	0458	0510	N07	E11	.197	17244	7.0	20	-N		C	0458	180	1.8	
MITK	06	0453	0500	0512	N04	E12	.207	17244	7.1	19	-N		C				E
GRP89437	06	0455+5	0505+5	0538	S20	E39	.709	17251	9.1	43	1N				220	3.1	F
CULG	06	0455	0510U	0526D	S21	E39	.715	17251	9.1	31D	1N		P	0510	300	4.2	T F
YUNN	06	0500	0505	0538	S20	E40	.719	17251	9.2	38	1N		C		145	2.2	
438 YUNN	06	0500	0505	0526	S14	E72	.959	17255	11.6	26	-N		C		64		K

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439 YUNN	06	0524	0530	0535	N21	W24	.484	17236	4.4	11	-N		C		48	.6	
440 YUNN	06	0526	0535	0554	N09	E05	.124	17244	6.6	28	-N		C		177	1.8	
GRP89441	06	0620	0628+3	0650	S20	E41	.729	17251	9.3	30	-N						
YUNN	06	0620	0631	0650	S21	E42	.744	17251	9.4	30	1N		C		177	2.7	
MANI	06	0628E	0628U	0638D	S20	E41	.729	17251	9.3	10D	-N	1	V		50	.8	
GRP89442	06	0648E	0650+5	0727	N09	E05	.124	17244	6.7	39	1B				210	2.1	J
TACH	06	0648E	0654	0704D	N09	E03	.103	17244	6.5	16D	1B		C	0654	442	4.6	E
ABST	06	0648E	0650	0732	N08	E05	.112	17244	6.7	44D	-N		P	0650	201	2.0	EJ
MANI	06	0650E	0652	0700D	N09	E08	.164	17244	6.9	10D	-N	1	V		100	1.0	F
YUNN	06	0650E	0655	0722	N10	E04	.127	17244	6.6	32D	1B		C		225	2.3	
CULG	06	0707E	0707E	0722D	N10	E06	.148	17244	6.7	15D	1B		P	0707	370	3.7	TF
443 CULG	06	0707E	0707E	0710U	S22	E43	.759	17251	9.5	3D	-F		C	0707	60	.9	T
GRP89444	06	0720>9	0721 0820	0916	S17	W90	1.000	17252	30.6	116	-N						DJV
ABST	06	0720	0721	0916D	S17	W80	.989	17252	31.3	116D	1N		P	0721	87		DVJ
YUNN	06	0802	0820	0851	S16	W90	1.000	17252	30.6	49	-N		C		48		
KHAR	06	0858E	0918	0945	S17	W90	1.000	17252	30.6	47	-F		P	0918	40		D
445 ABST	06	0748	0751	0810	S10	E71	.951	17255	11.6	22	?F		C	0751	87		FJ
		IMP.1 NO : YUNN CULG CATA TACH															
446 YUNN	06	0815E	0817	0820	N05	W26	.437	17240	4.4	5D	?N		C		193	2.2	
		IMP.1 NO : ABST CATA															
GRP89447	06	0850+8	0850+5 0901+0	0920	N24	W27	.543	17236	4.3	30	-N				70	.8	J
CATA	06	0850	0850	0925	N24	W26	.532	17236	4.4	35	-F	2	C	0850	84	1.0	
LEAR	06	0853	0855	0925	N24	W28	.554	17236	4.3	32	-N	3	C		65		
ABST	06	0854	0901	0916D	N24	W26	.543	17236	4.4	22D	-F		P	0901	148	1.8	FJ
MITK	06	0854	0901	0916D	N24	W26	.532	17236	4.4	22D	-F		P		150		FJ
YUNN	06	0855E	0855	0905	N25	W27	.551	17236	4.3	10D	-N		P		48	.6	
KHAR	06	0858	0901	0918	N24	W27	.543	17236	4.3	20	-N		P	0901	90	1.1	E
GRP89448	06	0932+9	0943+2	0952	S22	E41	.740	17251	9.5	20	-F				50	.7	D
YUNN	06	0932	0943	0952	S21	E42	.744	17251	9.5	20	-N		C		32	.5	
CATA	06	0940	0945	1000	S22	E41	.740	17251	9.5	20	-F	2	C	0945	56	.9	
KHAR	06	0941	0945	0951	S22	E41	.740	17251	9.5	10	-F		P	0945	50	.8	D
449 KHAR	06	0958	1005	1018	S11	E71	.952	17255	11.7	20	-F		P	1005	70		E
450 KHAR	06	1001	1001	1008	S19	E35	.661	17251	9.0	7	-F		P	1001	40	.5	D
	06	1025	1026	NO FLARE PATROL													
451 KHAR	06	1046	1046	1113	S19	E36	.671	17251	9.1	27	-F		P	1046	30	.4	D
452 KHAR	06	1106	1106	1113	S10	E68	.934	17255	11.6	7	-F		P	1106	40		E
453 KHAR	06	1119	1123	1156	N02	W27	.454	17240	4.4	37	1N		P	1123	280	3.1	E
GRP89454	06	1126	1126 1133	1139	S13	E66	.925	17255	11.4	13	1F						
KHAR	06	1126	1126	1139	S12	E67	.930	17255	11.5	13	-F		P	1126	60		
KHAR	06	1133	1133	1136	S14	E65	.920	17255	11.4	3	1F		P	1133	100		D
GRP89455	06	1146	1146+3	1156	S12	E66	.924	17255	11.4	10	-F						E
KHAR	06	1146	1146	1153	S10	E68	.934	17255	11.6	7	-F		P	1146	40		E
KHAR	06	1146	1149	1156	S14	E65	.920	17255	11.4	10	-F		P	1149	30		D
	06	1213	1511	NO FLARE PATROL													
GRP89456	06	1620>9	1728 2129	2143	S13	E64	.912	17255	11.5	323	2B						FK
BIGB	06	1620	1728	2139	S15	E65	.921	17255	11.6	319	2B	3	C	1728	280	6.8	
CULG	06	2019	2027	2032	S12	E64	.910	17255	11.6	13	-N		C	2027	40	.9	
CULG	06	2047	2048	2055	S10	E65	.915	17255	11.7	8	1F		C	2048	90	2.1	
CULG	06	2119U	2129U	2147	S12	E60	.881	17255	11.4	28D	1N		C	2129	120	2.4	FKT

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GRP89457	06	1917	1941	2035D	N10	W03	.118	17244	6.6	78	1B					FHIU
BIGB	06	1917	1941	2035	N10	W01	.108	17244	6.7	78	1B	3 C	1941	260	2.7	
CULG	06	2008E	2118E	2150	N10	W05	.137	17244	6.5	102D	2B	P	2008	1000	10.0	FHIU
458 CULG	06	2020	2034U	2040U	N04	W34	.558	17240	4.3	20D	-F	C	2034	40	.5	
459 CULG	06	2033	2055U	2111D	N25	W40	.693	17236	3.9	38D	-N	P	2055	100	1.3	F
460 CULG	06	2036	2054	2111D	S18	E31	.610	17251	9.2	35D	?F	P	2054	470	6.1	F
			IMP.2 NO : BIGB													
461 CULG	06	2051	2054	2110	N14	W83	.991	17229	31.6	19	?F	P	2054	70		
			IMP.1 NO : BIGB													
462 CULG	06	2139	2146	2229U	N23	W41	.694	17236	3.8	50D	-N	C	2146	130	1.8	K
463 CULG	06	2155U	2232	2253U	S12	E60	.881	17255	11.4	58D	?N	C	2232	220	4.4	FKT
			IMP.1 NO : BIGB													
464 CULG	06	2217	2224	2233	N28	W45	.756	17235	3.6	16	-F	C	2224	120	1.9	
465 CULG	06	2235	2243	2255	S20	E28	.594	17251	9.0	20	-F	C	2243	60	.8	T
GRP89466	06	2256	2315+2411	0049D	N09	W10	.194	17244	6.2	113	-N					F
CULG	06	2256	2317U	0049U	N10	W05	.137	17244	6.6	113D	-N	C	2317	160	1.6	FT
CULG	06	2309	2315	2326	N08	W14	.251	17244	5.9	17	-F	C	2315	80	.8	
CULG	06	2355U	2411	0042U	N08	W10	.187	17244	6.2	47D	-F	C	2411	100	1.0	T
467 CULG	06	2303	2314	2327	S12	E60	.881	17255	11.5	24	-N	C	2314	80	1.6	T
468 CULG	06	2305	2310	2331	N22	W41	.690	17236	3.9	26	-N	C	2310	80	1.1	
469 CULG	06	2344	2351U	0007	S12	E60	.881	17255	11.5	23	-F	C	2351	60	1.2	T
470 CULG	07	0043	0103U	0131U	S21	E29	.612	17251	9.2	48D	-F	C	0103	140	1.8	T
471 CULG	07	0104	0107	0122	N28	W45	.757	17235	3.7	18	?F	C	0107	160	2.6	
			IMP.1 NO : YUNN LEAR PALE													
GRP89472	07	0110+4	0123+2	0138	N07	W10	.182	17245	6.3	28	-N			80	.8	EK
YUNN	07	0110	0125	0137	N09	W10	.195	17245	6.3	27	-N	* C		129	1.3	EFKT
PALE	07	0113	0123	0139	N07	W11	.198	17245	6.2	26	-F	* C		57		
CULG	07	0114	0125	0156	N07	W10	.187	17245	6.3	42	-N	C	0125	60	.6	
MANI	07	0115E	0115U	0137D	N07	W10	.182	17245	6.3	22D	-F	* V		40	.4	
PEKG	07	0122	0124	0128	N07	W11	.198	17245	6.2	6	-B	* P	0124	84	.9	E
GRP89473	07	0110	0128+1135	0138	S10	E60	.877	17255	11.5	28	-N			60	1.2	FK
LEAR	07	0110	0128	0134	S09	E65	.914	17255	11.9	24	-N	* C		62		
MANI	07	0115E	0115U	0137D	S09	E60	.876	17255	11.6	22D	-F	* V		30	.7	
CULG	07	0117U	0135	0228U	S11	E59	.871	17255	11.5	71D	1N	* C	0135	180	3.9	FKT
PALE	07	0126	0128	0144	S09	E59	.868	17255	11.5	18	-F	* C		36		
YUNN	07	0126	0129	0132	S11	E60	.879	17255	11.6	6	1N	* C		96	2.1	
474 PEKG	07	0124E	0124	0124D	N05	E01	.028	17253	7.1		-F	P	0124	13	.1	D
GRP89475	07	0135+5	0141+3	0149	S21	E31	.632	17251	9.4	14	-N					E
CULG	07	0135	0144	0202	S21	E33	.653	17251	9.5	27	-B	C	0144	140	1.8	T
YUNN	07	0138	0142	0146	S21	E31	.632	17251	9.4	8	1N	C		177	2.3	E
PALE	07	0140	0141	0149	S20	E32	.635	17251	9.5	9	-F	3 C		49		
PEKG	07	0140	0143	0150	S21	E31	.632	17251	9.4	10	-N	P	0144	105	1.4	EF
MANI	07	0143E	0144	0149D	S19	E31	.617	17251	9.4	6D	-F	1 V		50	.6	
GRP89476	07	0150+6	0205+2217	0315	N09	W08	.165	17244	6.5	85	2B			1200	12.2	FHIJ
YUNN	07	0150	0205	0310	N09	W08	.165	17244	6.5	80	3B	C		2250	23.4	HIJK
PEKG	07	0150	0207	0259	N10	W08	.175	17244	6.5	69	2B	C	0207	947	9.9	IUWZ
PALE	07	0156	0206	0315	N07	W11	.198	17244	6.3	79	2B	3 C		1035		D
CULG	07	0200U	0205	0337	N09	W08	.165	17244	6.5	97D	3B	C	0205	1360	13.7	FUJZ
MANI	07	0212E	0217	0319	N08	W08	.157	17244	6.5	67D	2N	2 P		900	9.4	F

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477 CULG	07	0240U	0242	0255	N03	W33	.544	17240	4.6	15D	-F		C	0242	80	.9	
478 CULG	07	0322	0336	0356U	S13	E58	.866	17255	11.5	34D	?N		C	0336	200	4.0	
			IMP.1 NO : YUNN														
479 CULG	07	0327	0338	0352	N08	W10	.188	17244	6.4	25	-N		C	0338	100	1.0	T
480 CULG	07	0351	0403	0418U	S08	W63	.898	17233	2.4	27D	?N		C	0403	100	2.5	T
			IMP.1 NO : YUNN														
GRP89481	07	0408>9	0419+6 0433	0538	S11	E57	.854	17255	11.4	90	1N				140	2.6	KZ
YUNN	07	0149E	0419	0424	S13	E57	.857	17255	11.4	155D	1F	*	C		161	3.2	
CULG	07	0408U	0526	0546U	S12	E58	.864	17255	11.5	98D	1N		C	0526	170	3.4	T
MANI	07	0413E	0456	0514	S11	E59	.871	17255	11.6	61D	-N	*	P		70	1.3	
LEAR	07	0417	0425	0544	S11	E57	.854	17255	11.5	87	1B	*	C		143		D
PEKG	07	0420	0423	0501	S11	E57	.854	17255	11.5	41	1B	*	P	0423	118	2.3	EFZ
YUNN	07	0430	0433	0437	S11	E57	.854	17255	11.5	7	1N	*	C		225	4.5	
YUNN	07	0444	0446	0525	S13	E57	.857	17255	11.5	41	1N	*	C		161	3.2	EFK
MANI	07	0530	0538	0546	S11	E58	.862	17255	11.6	16	-F	*	P		20	.4	
482 CULG	07	0426	0454	0524	S22	W32	.650	17241	4.8	58	-N		C	0454	40	.5	G
483 CULG	07	0516	0520	0542	N08	W10	.188	17244	6.5	26	-N		C	0520	120	1.2	T
484 CULG	07	0528	0540	0549	N28	W47	.775	17235	3.7	21	-F		C	0540	40	.6	
485 CULG	07	0542	0545	0557	N03	W35	.573	17240	4.6	15	-F		C	0545	60	.7	
486 CULG	07	0551	0553	0558	S16	W51	.811		3.4	7	-N		C	0553	60	1.0	T
487 TACH	07	0625	0633	0651	N07	W13	.231	17245	6.3	26	?N		C	0633	309	3.2	CEIJ
			IMP.1 NO : PURP CULG YUNN														
GRP89488	07	0626>9	0634 0643	0649	S11	E55	.836	17255	11.4	23	-N						
CULG	07	0626	0634	0649	S12	E55	.838	17255	11.4	23	-N		C	0634	100	1.8	T
LEAR	07	0642	0643	0648	S11	E56	.845	17255	11.5	6	-N	3	C		32		
GRP89489	07	0650+7	0654+4	0702	N23	W45	.738	17236	3.9	12	-N				60	.9	K
CULG	07	0650	0703	0726	N23	W43	.717	17236	4.1	36	1N		C	0703	140	2.0	F
YUNN	07	0654E	0654	0702	N20	W45	.728	17236	3.9	8D	-N		P		48	.8	K
PEKG	07	0657	0658	0700	N23	W46	.748	17236	3.8	3	-N		P	0659	55	.9	D
GRP89490	07	0654	0658+4	0712	N09	W10	.195	17244	6.5	18	-N						E
YUNN	07	0654	0702	0714	N10	W08	.175	17244	6.7	20	1N		C		321	3.4	E
PEKG	07	0658E	0658	0710	N08	W12	.219	17244	6.4	12D	-F		P	0659	88	.9	E
GRP89491	07	0658E	0718	0732	S08	E59	.866	17255	11.7	34	1N				150	3.0	F
CULG	07	0658U	0718	0736U	S09	E59	.868	17255	11.7	38D	1N		C	0718	140	2.7	FT
YUNN	07	0719E	0719	0727	S08	E60	.875	17255	11.8	8D	1N		C		161	3.8	
GRP89492	07	0720+4	0727+1	0735	S20	E28	.593	17251	9.4	15	-F				35	.4	
CULG	07	0720	0728	0736	S21	E31	.632	17251	9.6	16	-F		C	0728	40	.5	T
LEAR	07	0724	0727	0734	S19	E25	.552	17251	9.2	10	-F	3	C		29		
GRP89493	07	0722+5	0728+2	0744	N08	W13	.235	17244	6.3	22	1B				210	2.2	F
PEKG	07	0713	0728	0738	N09	W13	.241	17244	6.3	25	1B		P	0729	252	2.7	F
CULG	07	0722	0730	0754U	N08	W11	.203	17244	6.5	32D	1B	*	C	0730	260	2.6	TF
YUNN	07	0724	0729	0738	N08	W15	.267	17244	6.2	14	-N		C		129	1.4	EF
ISTA	07	0725E		0739	N09	W14	.256	17244	6.3	14D	1B						F
LEAR	07	0727	0728	0806	N12	W12	.250	17244	6.4	39	-B	*	C		134		D
PEKG	07	0729E	0729	0729D	N12	W06	.176	17244	6.9		-F	*	P	0729	42	.4	D
ISTA	07	0732		0740	N06	W19	.327	17244	5.9	8	-N						D
CATA	07	0735E	0735	0745D	N07	W13	.231	17244	6.3	10D	1F	2	P	0735	281	3.0	
GRP89494	07	0807+5	0814+2	0833	N08	W14	.251	17244	6.3	26	-N				180	1.9	E
YUNN	07	0807	0816	0826	N08	W15	.267	17244	6.2	19	-N		C		177	1.9	E
PEKG	07	0812	0814	0840	N08	W14	.251	17244	6.3	28	1N		P	0814	193	2.1	E
495 YUNN	07	0836	0846	0850	S09	E63	.899	17255	12.1	14	?N		C		193	4.5	E
			IMP.1 NO : LEAR														

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	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
496	YUNN	07	0900	0905	0925	S12	E53	.819	17255	11.3	25	-N		C		96	1.7	E
GRP89497		07	0934+3	0936+4 0956	1002	S10	E59	.869	17255	11.8	28	1B						E
	YUNN	07	0934	0940	1000	S10	E60	.877	17255	11.9	26	2B		C		274	5.9	E
	ATHN	07	0934E	0936	1003	S06	E59	.864	17255	11.8	29D	1B	2	V	0936	127	2.5	
	LEAR	07	0937	0937	0956	S10	E59	.869	17255	11.8	19	-B	3	C		48		D
	HTPR	07	0941E		1000	S09	E60	.876	17255	11.9	19D	-N		C	0948	50	1.0	E
	HTPR	07	0951	0956	1015	S10	E56	.843	17255	11.6	24	-F		C	0956	30	.5	E
498	HTPR	07	1001	1002	1010	S18	E27	.565	17251	9.4	9	-F		C	1002	40	.4	E
499	HTPR	07	1016		1024D	S22	E27	.600	17251	9.5	8D	-F		C	1018	20	.2	
500	CATA	07	1125E	1130	1200	S18	E25	.543	17251	9.4	35D	-F	2	P	1130	96	1.2	
GRP89501		07	1134+1	1135+5	1205	S12	E50	.790	17255	11.2	31	-N						D
	RAMY	07	1134	1135	1138D	S11	E50	.787	17255	11.2	4D	-B	3	C		77		D
	CATA	07	1135	1140	1205	S13	E51	.802	17255	11.3	30	1F	2	C	1140	253	4.4	
GRP89502		07	1250E	1257	1315	S09	E53	.813	17255	11.5	25	-B						
	ATHN	07	1250E	1257	1315	S08	E52	.801	17255	11.4	25D	-B	3	V	1257	95	1.6	
	HTPR	07	1250E		1305D	S11	E54	.826	17255	11.6	15D	-B		C	1254	40	.7	
GRP89503		07	1250+6	1257 1304	1350	N09	W14	.256	17244	6.5	60	1B				220	2.3	K
	HTPR	07	1250E		1350D	N09	W14	.324	17244	6.5	60D	1B		C	1302	250	2.5	EK
	ATHN	07	1250E	1257	1400	N10	W15	.278	17244	6.4	70D	1B	3	V	1257	223	2.4	
	RAMY	07	1256	1304	1345	N08	W12	.219	17244	6.6	49	1B	3	C		202		D
GRP89504		07	1313>9	1335+0 1349	1358	S09	E53	.813	17255	11.5	45	-N				60	1.0	E
	HTPR	07	1313	1335	1343	S11	E54	.826	17255	11.6	30	-N	*	C	1335	60	1.0	
	RAMY	07	1329	1335	1353	S09	E52	.803	17255	11.5	24	-B	*	C		57		
	HTPR	07	1347	1349	1403	S06	E56	.836	17255	11.8	16	-N	*	C	1349	80	1.4	E
505	HTPR	07	1409	1413	1418	S10	E54	.824	17255	11.6	9	-N		C	1413	80	1.4	E
GRP89506		07	1413+0	1437	1514D	N09	W14	.256	17244	6.5	61	1B				260	2.7	EK
	RAMY	07	1413	1437	1438D	N07	W15	.263	17244	6.5	25D	1B	3	C		295		
	HTPR	07	1413		1514D	N09	W16	.288	17244	6.4	61D	1B		C	1438	220	2.2	EK
	HTPR	07	1416		1514D	N13	W10	.234	17244	6.8	58D	-B		C	1440	160	1.6	EK
GRP89507		07	1440+1	1441 1540+0	1549	S07	E56	.838	17255	11.8	69	-B				110	2.0	EK
	HOLL	07	1440	1540	1549	S07	E56	.838	17255	11.8	69	-B	3	C		151		
	RAMY	07	1441	1441	1442D	S07	E56	.838	17255	11.8	1D	-B	3	C		58		
	HTPR	07	1441		1514D	S12	E51	.800	17255	11.4	33D	-B		C	1444	130	2.0	EK
	BIGB	07	1519E	1540	1549	S05	E58	.854	17255	12.0	30D	-B	3	P	1540	80	1.5	
		07	1514	1519	.NO FLARE PATROL													
508	HOLL	07	1612	1613	1622	N10	W14	.263	17244	6.6	10	-F	2	C		24		
509	HOLL	07	1642	1642	1650	N08	W18	.316	17244	6.3	8	-N	3	C		22		
GRP89510		07	1645E	1646+4 1740	1748D	S18	E19	.481	17251	9.1	63	-F						
	HOLL	07	1455	1646	1825D	S18	E19	.481	17251	9.0	210D	-N	3	C		140		
	RAMY	07	1645	1650	1656	S18	E20	.490	17251	9.2	11	-F	3	C		37		
	RAMY	07	1739	1740	1748	S18	E20	.490	17251	9.2	9	-F	3	C		24		
511	HOLL	07	1647	1647	1652	S11	W13	.336	17246	6.7	5	-F	3	C		24		
512	HOLL	07	1650	1656	1704	S09	E50	.782	17255	11.5	14	-N	3	C		46		
513	HOLL	07	1705	1741	1817	S10	E50	.784	17255	11.5	72	-N	3	C		70		
514	HOLL	07	1708	1729	1733	S11	W15	.358	17246	6.6	25	-F	3	C		21		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP89515	07	1724+2	1741+2	1847	N09	W17	.304	17244	6.4	83	2B			510	5.4	D
HOLL	07	1724	1741	1825D	N09	W16	.288	17244	6.5	61D	2B	3 C		818		
BIGB	07	1726	1742	1847	N09	W18	.319	17244	6.4	81	1B	3 C	1742	280	3.0	
RAMY	07	1726	1742	1847	N08	W18	.316	17244	6.4	81	2B	3 C		570		D
PALE	07	1742E	1743U	1901	N09	W16	.288	17244	6.5	79D	1B	3 C		460		D
516 RAMY	07	1732	1736	1744	N20	W52	.800	17236	3.8	12	-F	3 C		20		
517 PALE	07	1744E	1801	1815	N04	W25	.422	17245	5.9	31D	-F	3 C		62		
518 HOLL	07	1923E	1927	1954	N20	W51	.790	17236	4.0	31D	-F	3 C		41		
519 HOLL	07	1943	1948	1956	N10	W16	.293	17244	6.6	13	-F	3 C		28		
520 HOLL	07	1955	2001	2012	S11	W15	.358	17246	6.7	17	-N	3 C		72		
521 CULG	07	2003E	2004	2012	N17	W24	.454	17256	6.0	9D	-N	C	2004	40	.4	H
GRP89522	07	2032+2	2034+0	2041	N09	W19	.335	17244	6.4	9	-F					
CULG	07	2032	2034	2040	N10	W20	.355	17244	6.4	8	-F	C	2034	60	.6	
HOLL	07	2034	2034	2042	N08	W19	.332	17244	6.4	8	-N	3 C		23		
523 CULG	07	2135	2138	2207	N08	W20	.347	17244	6.4	32	-N	C	2138	100	1.1	THF
524 CULG	07	2136	2140	2149	S18	E13	.427	17251	8.9	13	-F	C	2140	60	.7	T
GRP89525	07	2158E	2205 2258	2337	S10	E47	.752	17255	11.4	99	1N					FK
CULG	07	2050	2258U	0116	S13	E47	.761	17255	11.4	266	2N	P	2258	450	6.8	FKT
PALE	07	2158	2205	2256	S08	E48	.758	17255	11.5	58	-F	3 C		44		
HOLL	07	2210E	2210	2337D	S10	E44	.719	17255	11.2	87D	1B	3 C		231		
GRP89526	07	2222+2	2228+2	2248D	N09	W18	.319	17244	6.6	26	-N			130	1.4	D
CULG	07	2222	2228	2248	N10	W18	.324	17244	6.6	26	-N	C	2228	160	1.7	
HOLL	07	2224	2230	2337D	N09	W18	.319	17244	6.6	73D	-B	3 C		99		D
527 CULG	07	2309	2312	2330	S18	E12	.419	17251	8.9	21	-F	C	2312	60	.7	
GRP89528	07	2345>9	2357+4	0011	N16	W25	.461	17244	6.1	26	-N					E
PEKG	08	0000	0001	0006	N17	W26	.482	17244	6.1	6	-N	P	0001	50	.6	E
CULG	07	2345	2357	0015	N15	W25	.455	17244	6.1	30	-N	C	2357	120	1.3	
GRP89529	07	2359+5	0001+4	0007	S13	E45	.740	17255	11.4	8	-F			50	.7	E
CULG	08	0004	0005	0008	S12	E50	.789	17255	11.8	4	-F	* C	0005	40	.6	
PEKG	07	2359	2401	0006	S14	E41	.699	17255	11.1	7	-N	* P	2401	55	.8	E
530 CULG	08	0003	0015	0025	N25	W51	.803	17236	4.2	22	-F	C	0015	60	1.0	
531 CULG	08	0014	0024	0040	N19	E13	.341	17247	9.0	26	-N	C	0024	60	.6	K
532 CULG	08	0048	0053	0146	N03	E08	.139		8.6	58	-F	C	0053	30	.3	KF
GRP89533	08	0117+3	0119+6	0149	N10	W20	.356	17244	6.6	32	-N					K
CULG	08	0117	0124	0209D	N12	W19	.351	17244	6.6	52D	1N	P	0124	240	2.4	FK
VORO	08	0118		0131D	N10	W18	.325	17244	6.7	13D	-N	P	0122	134	1.5	E
PEKG	08	0118	0119	0134	N10	W21	.371	17244	6.5	16	-N	P	0119	63	.7	E
PALE	08	0119	0120	0152	N09	W21	.367	17244	6.5	33	-F	3 C		60		
LEAR	08	0120	0120	0158	N10	W19	.340	17244	6.6	38	-B	3 C		99		
YUNN	08	0120E	0120	0137	N09	W20	.351	17244	6.6	17D	-F	P		48	.5	
MANI	08	0123E	0125U	0132D	N11	W23	.406	17244	6.3	9D	-B	1 V		20	.3	F
534 CULG	08	0119	0124	0200	S10	E50	.784	17255	11.8	41	?F	C	0124	140	2.2	
		IMP.1 NO : VORO PURP YUNN PALE														
535 CULG	08	0129	0144U	0205U	N22	W58	.858	17236	3.7	36D	?F	C	0144	140	2.4	
		IMP.1 NO : VORO PURP YUNN PALE LEAR														
536 CULG	08	0158	0159	0204	S14	E42	.710	17255	11.2	6	-F	* C	0159	80	1.1	
537 YUNN	08	0201	0203	0206	N10	W18	.325	17244	6.7	5	-N	C		80	.9	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp		Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
538 VORO	08	0212	0214	0217	S13	E54	.830	17255	12.1	5	-F		C	0214	45	.8	D
GRP89539	08	0230+2	0231+2	0235	S12	E50	.789	17255	11.9	5	-N				90	1.4	E
CULG	08	0230	0231	0233D	S12	E50	.789	17255	11.9	3D	-N		P	0231	120	1.9	
VORO	08	0232	0233	0235	S12	E50	.789	17255	11.9	3	-F		C	0233	68	1.1	E
YUNN	08	0232	0233	0234	S12	E48	.768	17255	11.7	2	-N		C		80	1.3	
GRP89540	08	0344+6	0347+9	0359	N09	W23	.398	17244	6.4	15	-F				50	.5	E
PEKG	08	0344	0347	0359	N09	W23	.398	17244	6.4	15	-N		P	0346	84	.9	ET
YUNN	08	0348	0352	0356	N09	W23	.398	17244	6.4	8	-F		C		48	.5	
LEAR	08	0350	0356	0414	N09	W21	.367	17244	6.6	24	-F	3	C		46		
GRP89541	08	0348+3	0352+8	0408	S19	E14	.447	17251	9.2	20	-F				90	1.0	E
YUNN	08	0348	0352	0410	S20	E15	.468	17251	9.3	22	-N		C		96	1.1	
PEKG	08	0349	0352	0400	S19	E14	.447	17251	9.2	11	-F		C	0352	88	1.0	E
LEAR	08	0351	0356	0418	S19	E14	.447	17251	9.2	27	-F	3	C		72		
CULG	08	0359E	0400U	0405D	S21	E19	.514	17251	9.6	6D	-F		P	0400	160	1.8	
GRP89542	08	0415+7	0422+4	0454	N11	W22	.391	17244	6.5	39	-N				130	1.4	E
YUNN	08	0415	0422	0454	N12	W22	.396	17244	6.5	39	-N	*	C		129	1.4	
LEAR	08	0421	0422	0438	N11	W19	.345	17244	6.8	17	-N	*	C		46		
PEKG	08	0422	0426	0458	N11	W22	.391	17244	6.5	36	-N	*	C	0426	143	1.6	E
543 LEAR	08	0422	0422	0428	S19	E15	.455	17251	9.3	6	-F	3	C		33		
GRP89544	08	0458+4	0459+6	0519	N11	W23	.406	17244	6.5	21	1B						FK
CULG	08	0359E	0505E	0513D	N12	W23	.411	17244	6.4	74D	1N	*	P	0505	380	3.8	KF
PEKG	08	0458	0459	0540	N11	W23	.406	17244	6.5	42	1B	*	P	0459	256	2.8	F
LEAR	08	0459	0503	0505D	N12	W24	.425	17244	6.4	6D	-B	*	C		58		D
YUNN	08	0500	0503	0543	N10	W21	.371	17244	6.6	43	-N	*	C		96	1.1	
PEKG	08	0502	0509	0509D	N11	W23	.406	17244	6.5	7D	1B	*	C	0509	202	2.2	F
545 LEAR	08	0459	0500	0505	N22	W53	.814	17236	4.2	6	-F	3	C		32		
GRP89546	08	0545	0546+1	0555	S14	E40	.687	17255	11.2	10	-F				50	.7	E
YUNN	08	0545	0547	0600	S14	E40	.687	17255	11.2	15	-N		C		48	.7	
PEKG	08	0546E	0546	0550	S15	E40	.692	17255	11.2	4D	-F		P	0546	46	.6	E
GRP89547	08	0711+6	0718+4 0736	0815	N10	W23	.402	17244	6.6	64	1B				310	3.4	K
YUNN	08	0711	0720	0810	N12	W24	.425	17244	6.5	59	1B		C		450	5.1	EK
CULG	08	0711	0715D	0715D	N10	W25	.432	17244	6.4	4D	-F		P	0715	80	.8	
TACH	08	0714E	0718	0800D	N09	W22	.383	17244	6.7	46D	1B		C	0718	309	3.5	F
PEKG	08	0715	0720	0805	N11	W22	.391	17244	6.7	50	1B		C	0720	370	4.2	F
LEAR	08	0717E	0718	0831	N10	W21	.371	17244	6.7	74D	1B	3	C		277		D
KANZ	08	0717	0722	0822	N10	W22	.386	17244	6.7	65	1B	2					
ATHN	08	0720E	0722	0814	N12	W22	.396	17244	6.7	54D	1B	3	V	0722	286	3.2	
CATA	08	0735E	0735	0735D	N09	W25	.429	17244	6.4		1F	2	P	0735	197	2.2	
LEAR	08	0735	0736	0759	N05	W32	.529	17244	5.9	24	-F	3	C		28		
548 LEAR	08	0832	0832	0838	S11	E41	.686	17255	11.4	6	-N	3	C		38		
GRP89549	08	0900+5	0903+2	0930	S07	E46	.733	17255	11.8	30	1N				230	3.4	EK
YUNN	08	0900	0905	0935	S07	E47	.744	17255	11.9	35	2B		C		353	5.4	EK
KANZ	08	0901	0905	0929	S06	E46	.731	17255	11.8	28	1N	1					
LEAR	08	0902	0903	0930	S07	E45	.721	17255	11.8	28	1N	3	C		198		
ATHN	08	0903E	0905	0920	S11	E49	.776	17255	12.1	17D	1B	3	V	0905	191	3.2	
CATA	08	0905	0905	0910D	S07	E45	.721	17255	11.8	5D	1F	2	P	0905	169	2.5	
550 KANZ	08	1124	1124	1132	N13	W32	.544	17244	6.1	8	-F	1					
GRP89551	08	1124+1	1124+2	1138	S11	E44	.721	17255	11.8	14	-N						
KANZ	08	1124	1124	1132	S08	E46	.735	17255	11.9	8	-N	*					
ATHN	08	1125	1126	1143	S15	E43	.725	17255	11.7	18	-B	*	V	1126	80	1.2	
552 KANZ	08	1144	1148	1202	S19	E11	.424	17251	9.3	18	-N	2					
GRP89553	08	1211+6	1215+4	1230	S10	W27	.502	17246	6.5	19	-F						
KANZ	08	1211	1215	1228	S10	W30	.543	17246	6.3	17	-F	2					
RAMY	08	1217	1219	1231	S11	W25	.483	17246	6.6	14	-N	3	C		23		

H - ALPHA SOLAR FLARES

NOVEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP89554	08	1217+7	1244	1310D	N08	W27	.457	17244	6.5	53	-N					
RAMY	08	1217	1243	1243D	N08	W29	.487	17244	6.3	26D	-B	3 C		131		
KANZ	08	1224	1244	1310D	N09	W25	.429	17244	6.6	46D	-N	2				
555 RAMY	08	1234	1241	1308	S09	E41	.679	17255	11.6	34	-N	3 C		89		
GRP89556	08	1333	1337+0	1538	N09	W28	.474	17244	6.5	125	2B					
RAMY	08	1333	1337	1538	N08	W28	.472	17244	6.5	125	2B	3 C		900		
ATHN	08	1335E	1337	1400D	N13	W29	.502	17244	6.4	25D	1B	3 V	1337	350	4.1	
KANZ	08	1340E		1415D	N09	W28	.474	17244	6.5	35D	2B	1				C
557 RAMY	08	1351	1354	1444	S10	E37	.633	17255	11.4	53	-N	3 C		133		
	08	1415	1515	NO FLARE PATROL												
GRP89558	08	1447	1451+3	1505	S09	E37	.629	17255	11.4	18	1B					
RAMY	08	1447	1454	1505	S09	E37	.629	17255	11.4	18	1B	3 C		202		
RAMY	08	1447	1451	1452	S09	E37	.629	17255	11.4	5	-B	3 C		108		
559 RAMY	08	1537	1539	1543	S09	E36	.616	17255	11.4	6	-F	3 C		25		
560 RAMY	08	1614	1615	1623	N05	W34	.558	17245	6.1	9	-F	3 C		35		
GRP89561	08	1618+0	1620+0	1625	S07	E41	.673	17255	11.8	7	-N			80	1.1	
RAMY	08	1618	1620	1625	S07	E41	.673	17255	11.8	7	-N	3 C		79		
HOLL	08	1618	1620	1625	S08	E42	.688	17255	11.8	7	-N	3 C		86		
562 HOLL	08	1633	1638	1647	S08	E44	.712	17255	12.0	14	-F	3 C		31		
GRP89563	08	1652+0	1653+1	1659	N07	W36	.588	17245	6.0	7	-N			70	.9	
HOLL	08	1652	1654	1658	N08	W36	.589	17245	6.0	6	-N	3 C		61		
RAMY	08	1652	1653	1700	N07	W36	.588	17245	6.0	8	-N	3 C		79		
564 HOLL	08	1728	1730	1737	S10	E36	.621	17255	11.4	9	-F	3 C		23		
GRP89565	08	1729+1	1729+1	1802	N10	W29	.492	17244	6.6	33	-N			40	.5	
HOLL	08	1729	1729	1805	N09	W28	.474	17244	6.6	36	-B	3 C		44		
RAMY	08	1730	1730	1758	N12	W31	.527	17244	6.4	28	-N	3 C		43		
566 HOLL	08	1804	1806	1813	S10	E36	.621	17255	11.5	9	-F	3 C		21		
567 HOLL	08	1815	1819	1826	S07	E44	.709	17255	12.1	11	-N	3 C		28		
GRP89568	08	1838+1	1840+0	1912	S10	W32	.569	17246	6.4	34	-F			40	.5	
RAMY	08	1838	1840	1909	S10	W33	.582	17246	6.3	31	-F	3 C		40		
HOLL	08	1839	1840	1910	S10	W32	.569	17246	6.4	31	-N	3 C		43		
HOLL	08	1910	1914	1915	S12	W29	.542	17246	6.6	5	-F	3 C		59		
GRP89569	08	1903+5	1908+1	1921	S18	E09	.397	17251	9.5	18	-F			45	.5	
HOLL	08	1903	1908	1922	S18	E10	.404	17251	9.5	19	-N	3 C		49		
RAMY	08	1908	1909	1919	S18	E09	.397	17251	9.5	11	-F	3 C		36		
570 RAMY	08	1929	1935	1942	S10	E35	.608	17255	11.4	13	-F	3 C		25		
GRP89571	08	1935+7	1935 1942	1948	S19	E06	.397	17251	9.3	13	-F					
HOLL	08	1935	1935	1942	S19	E07	.402	17251	9.3	7	-F	3 C		32		
RAMY	08	1942	1942	1953	S19	E06	.397	17251	9.3	11	-F	3 C		57		
GRP89572	08	1956+1	2007+1	2039	S09	E42	.691	17255	12.0	43	1B			180	2.5	D
BIGB	08	1956	2007	2039	S09	E42	.691	17255	12.0	43	1B	3 C	2007	150	2.1	
HOLL	08	1956	2007	2039	S08	E43	.700	17255	12.1	43	1B	3 C		208		D
RAMY	08	1957	2008	2036	S09	E35	.603	17255	11.5	39	-B	3 C		174		D
GRP89573	08	1956+3	2007+1	2049	N23	W60	.875	17236	4.3	53	1N			170	3.6	D
RAMY	08	1956	2008	2049	N21	W62	.888	17236	4.2	53	1N	* C		216		
BIGB	08	1956	2008	2049	N24	W60	.876	17236	4.3	53	1N	* C	2008	130	2.7	
HOLL	08	1959	2007	2009D	N23	W60	.875	17236	4.3	10D	1B	* C		164		D
574 RAMY	08	2008	2008	2019	N12	W32	.541	17244	6.4	11	-F	3 C		21		

H - ALPHA S O L A R F L A R E S

NOVEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP89575	08	2045+2	2046+1	2055	S11	W25	.483	17246	7.0	10	-F			35	.4	
CULG	08	2045	2046U	2053	S10	W25	.476	17246	7.0	8	-F	C	2046	40	.5	
RAMY	08	2047	2047	2056	S13	W26	.511	17246	6.9	9	-F	3 C		32		
GRP89576	08	2051+3	2054 2113+0	2140	N11	W30	.509	17244	6.6	49	-B					F
CULG	08	2051	2113	2149D	N13	W30	.516	17244	6.6	58D	1N	C	2113	220	2.5	F
HOLL	08	2054	2054	2058D	N09	W30	.504	17244	6.6	4D	-B	3 C		21		D
HOLL	08	2109	2113	2131	N09	W30	.504	17244	6.6	22	-B	3 C		54		
577 CULG	08	2119	2123	2130	S10	W36	.621	17246	6.2	11	-F	C	2123	120	1.6	
578 CULG	08	2119	2143U	2200U	S13	E33	.598	17255	11.4	41D	?F	C	2143	380	4.9	F
			IMP.1 NO : BIGB HOLL													
579 CULG	08	2222	2229U	2236D	N09	E36	.590	17263	11.6	14D	?N	P	2229	200	2.6	F
			IMP.1 NO : BIGB HOLL													
580 CULG	08	2232	2234	2236D	S10	W26	.489	17246	7.0	4D	-N	P	2234	40	.5	
GRP89581	08	2240+0	2248+4 2300	2333	S19	E03	.388	17251	9.2	53	-N			150	1.6	F
HOLL	08	2240	2247	2247D	S18	E02	.371	17251	9.1	7D	1B	3 C		208		
BIGB	08	2240	2248	2249	S19	E04	.230	17251	9.2	9	-B	3 C	2248	120	1.2	
MANI	08	2242E	2251	0014D	S19	E03	.388	17251	9.2	92D	-N	2 P		180	2.0	F
CULG	08	2242E	2300E	2357	S19	E02	.387	17251	9.1	75D	1B	P	2300	460	5.0	F
LEAR	08	2250E	2252U	2317	S20	E04	.406	17251	9.3	27D	-F	2 C		62		
VORO	08	2259E		2325D	S20	E07	.417	17251	9.5	26D	1F	P	2301	179	2.1	E
GRP89582	08	2330+2	2331+2	2336	S09	E39	.655	17255	11.9	6	-N			60	.8	DG
CULG	08	2330	2331	2337	S09	E36	.616	17255	11.7	7	-N	C	2331	90	1.2	T
HOLL	08	2331	2331	2336	S09	E39	.655	17255	11.9	5	-B	3 C		38		D
PALE	08	2331	2332	2336	S08	E39	.651	17255	11.9	5	-F	3 C		36		
VORO	08	2332	2333	2335	S10	E40	.671	17255	12.0	3	-F	C	2333	68	.9	DG
583 CULG	09	0011	0016	0040U	S08	W38	.638	17246	6.2	29D	-F	C	0016	100	1.3	FH
584 CULG	09	0048	0052	0059	N13	W80	.983	17237	3.0	11	-F	C	0052	30		
GRP89585	09	0052+6	0058+4	0132	S18	E03	.371	17251	9.3	40	1N					GHV
LEAR	09	0052	0102	0204	S18	E02	.369	17251	9.2	72	2B	3 C		529		
CULG	09	0054	0058	0151	S18	E02	.369	17251	9.2	57	1B	C	0058	380	4.2	FVT
PALE	09	0056	0100	0131	S18	E04	.373	17251	9.3	35	1N	3 C		216		
MITK	09	0056	0058	0129D	S19	E03	.387	17251	9.3	33D	1N	C		200		E
MANI	09	0057E	0059U	0115D	S19	E03	.387	17251	9.3	18D	-N	1 V		120	1.3	
VORO	09	0058	0102	0118	S20	E07	.415	17251	9.6	20	1N	C	0102	179	2.1	EHG
PEKG	09	0101E	0101	0115	S18	E01	.368	17251	9.1	14D	1B	P	0101	421	4.7	F
YUNN	09	0101E	0101	0101D	S19	E02	.385	17251	9.2		1B	P		241	2.7	
GRP89586	09	0104+1	0105+1	0110	S11	E33	.587	17255	11.5	6	-N			35	.4	D
CULG	09	0021U	0037U	0119	S12	E34	.605	17255	11.6	58D	-N	* C	0037	160	1.9	T
PEKG	09	0104	0106	0110	S11	E32	.574	17255	11.4	6	-N	* C	0106	55	.7	D
PALE	09	0104	0105	0110D	S08	E33	.572	17255	11.5	6D	-F	* C		23		
LEAR	09	0104	0106	0110	S11	E32	.574	17255	11.4	6	-N	* C		22		
VORO	09	0105	0106	0109	S12	E36	.630	17255	11.7	4	-F	* C	0106	45	.6	D
587 CULG	09	0135	0136	0140	S10	E37	.633	17255	11.8	5	-F	C	0136	100	1.3	T
GRP89588	09	0154>9	0204+4	0215	S13	E37	.647	17255	11.9	21	1N			180	2.3	GH
CULG	09	0154	0206	0250	S13	E37	.647	17255	11.9	56	1B	C	0206	250	3.3	FHT
VORO	09	0202	0208	0216	S12	E40	.678	17255	12.1	14	1F	C	0208	179	2.4	EHG
PALE	09	0203E	0204U	0216	S08	E32	.558	17255	11.5	13D	-F	3 C		91		
LEAR	09	0203	0205	0214	S13	E37	.647	17255	11.9	11	-B	3 C		143		D
PEKG	09	0205	0207	0212	S13	E37	.647	17255	11.9	7	1B	P	0207	210	2.8	E

H - ALPHA S O L A R F L A R E S

NOVEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP89589	09	0235+3	0237+4	0250	S10	E36	.620	17255	11.8	15	-N					GK
CULG	09	0235	0238	0251	S10	E35	.607	17255	11.7	16	1B	C	0238	180	2.3	T
PALE	09	0236	0239	0251	S07	E37	.621	17255	11.9	15	-N	3 C		81		D
YUNN	09	0236	0237	0238	S11	E36	.625	17255	11.8	2	1N	C		209	2.8	EFK
LEAR	09	0237	0241	0248	S10	E35	.607	17255	11.7	11	-B	3 C		60		D
MITK	09	0237	0238	0248	S10	E37	.633	17255	11.9	11	-F	C				D
VORO	09	0238	0240	0252	S10	E40	.670	17255	12.1	14	-F	C	0240	90	1.2	EG
590 CULG	09	0247	0250	0300	N25	W67	.925	17236	4.1	13	?N	C	0250	100	2.3	FK
			IMP.1 NO : VORO LEAR PALE YUNN MITK													
591 CULG	09	0253	0255	0304	S20	W02	.401	17251	9.0	11	-F	C	0255	80	.9	
592 CULG	09	0310	0313	0335	N16	E41	.671	17263	12.2	25	-F	C	0313	40	.6	G
593 CULG	09	0313	0418	0424	N23	W80	.983	17237	3.1	71	-F	C	0418	40		
GRP89594	09	0317+1	0322+1	0335	S18	E02	.369	17251	9.3	18	-F			110	1.2	
CULG	09	0317	0323	0335	S18	E02	.369	17251	9.3	18	-N	C	0323	100	1.1	
LEAR	09	0318	0322	0334	S19	E02	.385	17251	9.3	16	-F	3 C		123		
GRP89595	09	0352>9	0354+2 0404+3	0418	N11	W33	.553	17244	6.7	26	1N			180	2.2	
CULG	09	0352	0405	0439	N12	W33	.555	17244	6.7	47	1N	* C	0405	170	2.0	F
CULG	09	0353	0356	0404	N07	W43	.681	17244	5.9	11	-F	C	0356	130	1.7	
YUNN	09	0354	0354	0356	N12	W34	.569	17244	6.6	2	-F	* C		112	1.4	
YUNN	09	0400	0404	0413	N14	W32	.548	17244	6.8	13	1N	* C		209	2.6	
LEAR	09	0402	0407	0423	N11	W32	.538	17244	6.8	21	-B	* C		67		D
PEKG	09	0402	0405	0411	N12	W33	.555	17244	6.7	9	1B	* C	0405	189	2.4	E
GRP89596	09	0353+2	0356+1	0407	S19	E02	.385	17251	9.3	14	-B			160	1.7	E
CULG	09	0353	0357	0410	S18	E02	.369	17251	9.3	17	1B	C	0357	180	2.0	
LEAR	09	0355	0357	0415	S19	E03	.387	17251	9.4	20	1N	3 C		228		
YUNN	09	0355	0356	0404	S20	E02	.401	17251	9.3	9	-N	C		96	1.1	
PEKG	09	0357E	0357	0402	S19	E01	.384	17251	9.2	5D	-B	P	0359	143	1.3	E
GRP89597	09	0404+0	0407+5	0415	S13	E28	.535	17255	11.3	11	1N					D
CULG	09	0325	0412U	0540U	S25	E26	.617	17255	11.1	135D	2N	* C	0412	480	5.5	T
LEAR	09	0404	0407	0415	S11	E32	.574	17255	11.6	11	-N	* C		40		
YUNN	09	0404	0409	0415	S15	E27	.538	17255	11.2	11	1N	* C		290	3.5	
PEKG	09	0404	0408	0410	S11	E30	.548	17255	11.4	6	-N	* C	0408	42	.6	D
GRP89598	09	0415>9	0428+1	0445	S09	E35	.603	17255	11.8	30	1B					K
CULG	09	0325	0428	0535D	S08	E35	.599	17255	11.8	130D	1B	* C	0428	360	3.9	KTF
YUNN	09	0415	0428	0445	S11	E34	.599	17255	11.7	30	2N	* C		643	8.3	
LEAR	09	0427	0429	0442	S09	E36	.616	17255	11.9	15	-B	* C		151		D
599 CULG	09	0429	0433	0438	S11	W41	.686	17246	6.1	9	-F	C	0433	60	.8	
GRP89600	09	0515+3	0518+1	0527	N12	W33	.555	17244	6.7	12	-F			50	.6	E
CULG	09	0515	0518	0533	N12	W33	.555	17244	6.7	18	-N	C	0518	40	.5	
PEKG	09	0518	0519	0520	N12	W34	.569	17244	6.7	2	-F	C	0519	59	.7	E
GRP89601	09	0526+8	0535+3	0545	N08	W38	.616	17244	6.4	19	-N					F
CULG	09	0526	0538	0619U	N08	W38	.616	17244	6.4	53D	-N	C	0538	140	1.8	F
YUNN	09	0531	0535	0545	N08	W38	.616	17244	6.4	14	-N	C		80	1.0	
LEAR	09	0534	0538	0541	N07	W38	.615	17244	6.4	7	-F	3 C		36		
602 CULG	09	0551	0552	0557	S08	E35	.599	17255	11.9	6	-F	C	0552	100	1.3	T
GRP89603	09	0621>9	0641+1	0653	S09	E36	.616	17255	12.0	32	-F			50	.6	E
CULG	09	0621	0641	0700U	S09	E36	.616	17255	12.0	39D	-F	C	0641	60	.8	T
PEKG	09	0640	0642	0646	S09	E36	.616	17255	12.0	6	-F	C	0643	46	.6	E
604 CULG	09	0632	0633	0639	N16	W41	.671	17256	6.2	7	-N	C	0633	50	.7	
605 CULG	09	0701	0707	0737	S17	W12	.402	17251	8.4	36	-N	C	0707	100	1.1	
606 CULG	09	0721	0724	0730	S11	E25	.482	17255	11.2	9	-N	C	0724	60	.7	
607 YUNN	09	0748	0758	0808	S08	E36	.612	17255	12.0	20	-N	C		96	1.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP89608	09	0858+6	0907+1	0920	S07	E33	.568	17255	11.8	22	1N				190	2.3	E
YUNN	09	0858	0907	0920	S07	E34	.581	17255	11.9	22	1N		C		193	2.5	E
BUCA	09	0901		0935D	S06	E33	.564	17255	11.9	34D	1N		C	0912	215	2.7	E
LEAR	09	0904	0908	0918	S09	E32	.563	17255	11.8	14	-F	3	C		47		
609 LEAR	09	0934	0936	0945	S20	E00	.400	17251	9.4	11	-F	3	C		42		
610 YUNN	09	0949	0950	1005	S08	E34	.585	17255	12.0	16	-N		P		161	2.0	
611 LEAR	09	0956	0958U	0958D	S18	W02	.369	17251	9.3	2D	-F	3	C		30		
	09	1005	1230	NO FLARE PATROL													
612 RAMY	09	1230	1242	1308	S18	W04	.373	17251	9.2	38	-N	3	C		51		
	09	1240	1516	NO FLARE PATROL													
613 RAMY	09	1248	1307	1348	N07	W42	.668	17245	6.4	60	-F	3	C		19		
614 RAMY	09	1329	1330	1348	S11	E27	.508	17255	11.6	19	-N	3	C		97		
615 RAMY	09	1510	1510	1513	S11	E25	.482	17255	11.5	3	-N	3	C		43		
GRP89616	09	1526+4	1536+2	1602	S18	W01	.368	17251	9.6	36	-N				180	1.9	
BIGB	09	1526	1536	1602	S19	W03	.387	17251	9.4	36	-F	2	C	1536	100	1.0	
RAMY	09	1526	1536	1602	S18	W01	.368	17251	9.6	36	1N	3	C		219		
HOLL	09	1530	1538	1558	S18	W01	.368	17251	9.6	28	-N	3	C		179		
GRP89617	09	1621+1	1624+0	1633	S14	W44	.732	17246	6.4	12	-N				35	.5	
RAMY	09	1621	1624	1633	S14	W44	.732	17246	6.4	12	-N	3	C		39		
HOLL	09	1622	1624	1632	S15	W44	.736	17246	6.4	10	-N	3	C		29		
GRP89618	09	1711+3	1718+1	1750	S11	E22	.443	17255	11.4	39	-N				80	.9	
HOLL	09	1711	1718	1752	S11	E21	.430	17255	11.3	41	-N	3	C		95		
RAMY	09	1714	1719	1748	S11	E24	.469	17255	11.5	34	-N	3	C		68		
GRP89619	09	1912+0	1929+0	1957	N08	W46	.719	17244	6.3	45	1N				220	3.2	
RAMY	09	1912	1929	1957	N08	W46	.719	17244	6.4	45	1N	3	C		257		
BIGB	09	1912	1929	1957	N08	W46	.719	17244	6.4	45	1N	2	C	1929	190	2.8	
620 RAMY	09	1920	1922	1935	N04	W51	.776	17245	6.0	15	-F	3	C		36		
621 RAMY	09	2003	2006	2015	S11	W49	.776	17246	6.2	12	-F	3	C		23		
622 RAMY	09	2005	2007	2025	S17	W13	.410	17251	8.9	20	-F	3	C		81		
623 CULG	09	2028	2037	2054	S12	W48	.768	17246	6.3	26	-N		C	2037	40	.6	F
624 CULG	09	2030	2035	2042	S10	E18	.382	17255	11.2	12	-N		C	2035	50	.6	
625 CULG	09	2054	2055	2100	S11	E21	.430	17255	11.4	6	-N		C	2055	80	.9	
626 CULG	09	2055	2101	2105	S12	W48	.768	17246	6.3	10	-B		C	2101	50	.8	FH
627 CULG	09	2118	2146	2229	S10	E26	.488	17255	11.8	71	?N		C	2146	160	2.0	TF
			IMP.1 NO : HOLL BIGB														
628 CULG	09	2125	2127	2139	S17	W13	.410	17251	8.9	14	-F		C	2127	50	.6	
GRP89629	09	2140+5	2147+1	2216	N08	W47	.731	17244	6.4	36	-N						F
CULG	09	2140	2148	2229	N11	W45	.710	17244	6.5	49	1N		C	2148	240	3.4	FT
HOLL	09	2145	2147	2202	N07	W47	.730	17244	6.4	17	-N	3	C		61		
CULG	09	2214	2217	2226	N08	W48	.742	17244	6.3	12	-N		C	2217	60	.9	T
630 CULG	09	2145	2149	2203	S09	W47	.749	17246	6.4	18	-F		C	2149	90	1.4	FT
631 CULG	09	2214	2218	2232	S10	W51	.794	17246	6.1	18	-N		C	2218	20	.3	T
632 CULG	09	2227	2241	2333	S21	E01	.416	17249	10.0	66	?N		C	2241	340	3.7	SFI
			IMP.1 NO : HOLL BIGB														

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
633 HOLL	09	2232	2234	2321	S17	W13	.410	17251	9.0	49	-N	3	C		36		
634 CULG	09	2247	2250	2300	S18	E12	.416	17249	10.8	13	-F		C	2250	50	.6	
635 CULG	09	2253	2256	2305	N08	W54	.808	17244	5.9	12	?F		C	2256	150	2.4	T
			IMP.1 NO : HOLL BIGB														
636 HOLL	09	2310	2310	2313	S12	E22	.451	17255	11.6	3	-N	3	C		27		
GRP89637	09	2323+3	2329+i	2353	N07	W49	.753	17245	6.3	30	-N				60	.9	
CULG	09	2323	2330	2353	N08	W50	.765	17245	6.2	30	-N		C	2330	80	1.2	T
HOLL	09	2326	2329	2343D	N06	W49	.753	17245	6.3	17D	-N	2	C		46		
638 CULG	09	2328	2332	2339	S11	W52	.806	17246	6.1	11	-F		C	2332	100	1.6	T
639 HOLL	09	2339	2340	2343D	S17	W13	.410	17251	9.0	4D	-F	2	C		25		
	09	2400	0015	NO FLARE PATROL													
640 CULG	10	0000	0028	0110U	S12	E20	.425	17255	11.5	70D	-N		C	0028	120	1.3	T
641 CULG	10	0118	0120	0127	S08	W50	.779	17246	6.3	9	-F		C	0120	30	.5	T
642 CULG	10	0200	0219	0303	N13	E64	.898	17265	14.9	63	?F		C	0219	180	4.3	FIG
			IMP.1 NO : PURP YUNN														
643 CULG	10	0243	0252	0258	S12	W53	.818	17246	6.1	15	-F		C	0252	60	1.0	TH
GRP89644	10	0301+7	0308+6 0354+1	0433	N09	W51	.777	17244	6.3	92	1B				160	2.6	KZ
LEAR	10	0301	0308	0439	N10	W46	.721	17244	6.7	98	-B	3	C		124		D
CULG	10	0307	0314	0339	N07	W52	.787	17244	6.2	32	1N		C	0314	200	3.2	F
PEKG	10	0308	0311	0430	N10	W52	.788	17244	6.2	82	1B		P	0312	294	4.9	FKZ
PEKG	10	0308	0355	0430	N09	W52	.787	17244	6.2	82	1B		P	0355	205	3.5	E
YUNN	10	0315E	0315	0335	N08	W52	.787	17244	6.2	20D	-N		P		113	1.9	
YUNN	10	0345	0354	0430	N09	W51	.777	17244	6.3	45	1N		C		161	2.7	EK
CULG	10	0348	0427U	0512	N10	W50	.766	17244	6.4	84	1N		C	0427	240	3.6	FK
645 CULG	10	0309	0310	0317	S15	E11	.365	17255	11.0	8	-N		C	0310	60	.7	T
646 CULG	10	0402	0405	0418	S09	W51	.792	17246	6.3	16	-N		C	0405	80	1.4	T
647 CULG	10	0436	0439	0446	S15	E11	.365	17255	11.0	10	-N		C	0439	60	.7	T
648 YUNN	10	0436	0440	0445	N12	W50	.768	17244	6.4	9	?N		C		129	2.1	E
			IMP.1 NO : PURP CULG LEAR														
GRP89649	10	0446+6	0450 0457	0508	S09	W51	.792	17246	6.4	22	-N						H
LEAR	10	0446	0450	0502	S10	W50	.783	17246	6.4	16	-F	3	C		126		
CULG	10	0452	0457	0514	S09	W53	.812	17246	6.2	22	1N		C	0457	180	3.1	TH
650 LEAR	10	0613	0615	0627	S18	W16	.448	17251	9.1	14	-F	3	C		61		
651 CULG	10	0643	0646	0657	N09	W49	.755	17244	6.6	14	-F		C	0646	100	1.5	
652 CULG	10	0658	0659	0712	S11	E20	.416	17255	11.8	14	-N		C	0659	60	.7	T
653 YUNN	10	0704	0705	0715	S16	W18	.444	17251	8.9	11	-F		C		80	.9	
654 CULG	10	0724	0725	0736	S11	E15	.355	17255	11.4	12	-N		C	0725	100	1.1	T
655 CULG	10	0744	0746	0749	S11	W53	.816	17246	6.3	5	-F		C	0746	60	1.0	T
GRP89656	10	0802+3	0811+7 0900	0937	S13	E16	.389	17255	11.5	95	1B				260	2.8	J
YUNN	10	0802E	0818	0955	S12	E17	.389	17255	11.6	113D	2B		C		562	6.2	E
LEAR	10	0805	0812	1006D	S12	E14	.355	17255	11.4	121D	1B	3	C		307		D
ATHN	10	0810E	0811	0916D	S12	E16	.377	17255	11.5	66D	1B	2	V	0811	223	2.5	
ABST	10	0815E	0816	0855	S14	E17	.411	17255	11.6	40D	-N		P	0816	87	.9	FJ
CATA	10	0855E	0900	0900D	S13	E11	.338	17255	11.2	5D	1F	2	P	0900	393	4.3	
CATA	10	0930E	0930	0940D	S15	E11	.365	17255	11.2	10D	1F	2	P	0930	393	4.4	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP89657	10	0823+2	0826+1	0836	N11	W48	.745	17244	6.7	13	-F			90	1.4	
LEAR	10	0823	0827	0842	N10	W49	.755	17244	6.7	19	-F	3 C		117		
YUNN	10	0825	0826	0830	N12	W48	.746	17244	6.8	5	-N	P		65	1.0	
GRP89658	10	0851+3	0853+2	0900	N10	W49	.755	17244	6.7	9	-N			60	.9	D
ABST	10	0851	0853	0858	N11	W51	.778	17244	6.5	7	-N	C	0853	87	1.4	D
LEAR	10	0854	0855	0905	N10	W49	.755	17244	6.7	11	-B	3 C		39		
CATA	10	0855E	0900	0900D	N10	W49	.755	17244	6.7	5D	-F	2 P	0900	56	.9	
	10	1020	1035	NO FLARE PATROL												
	10	1040	1050	NO FLARE PATROL												
GRP89659	10	1127	1159	1237	N06	W53	.797	17245	6.5	70	-B					D
RAMY	10	1127	1159	1200D	N12	W53	.800	17245	6.5	33D	-B	3 C		100		D
RAMY	10	1141	1159	1229	N12	W53	.800	17245	6.5	48	-B	3 C		100		D
CATA	10	1210E	1210	1245D	N01	W53	.799	17245	6.5	35D	1F	2 P	1210	169	2.9	
	10	1130	1210	NO FLARE PATROL												
GRP89660	10	1140	1141	1321	S10	W54	.823	17246	6.4	101	2B					D
RAMY	10	1140	1141	1321	S11	W54	.825	17246	6.4	101	2B	3 C		740		D
CATA	10	1210E	1210	1245D	S10	W55	.833	17246	6.4	35D	1F	2 P	1210	169	3.1	
	10	1245	1515	NO FLARE PATROL												
661 RAMY	10	1307	1317	1416	N08	W53	.798	17244	6.6	69	-B	3 C		95		D
662 RAMY	10	1336	1336	1348	S07	E16	.327	17255	11.8	12	-N	3 C		68		
663 HOLL	10	1417E	1417U	1443	N15	W39	.644	17247	7.7	26D	-F	2 C		56		
GRP89664	10	1444+6	1451+1	1502	N09	W52	.787	17244	6.7	18	-N			20	.3	
HOLL	10	1444	1452	1501	N09	W52	.787	17244	6.7	17	-N	3 C		23		
RAMY	10	1450	1451	1502	N09	W52	.787	17244	6.7	12	-N	3 C		24		
665 HOLL	10	1539	1551	1624	S11	W59	.870	17246	6.2	45	-F	3 C		38		
GRP89666	10	1559+9	1608 1616+0	1802	N08	W55	.818	17244	6.5	123	1N					
RAMY	10	1559	1608	1611D	N08	W55	.818	17244	6.5	12D	-B	3 C		93		
HOLL	10	1608	1616	1802	N15	W50	.772	17244	6.9	114	1N	3 C		189		
BIGB	10	1608	1616	1802	N07	W57	.837	17244	6.4	114	1N	2 C	1616	160	3.0	
BIGB	10	1614	1616	1638	N07	W57	.837	17244	6.4	24	-N	2 C	1616	50	.9	
HOLL	10	1614	1616	1638	N06	W57	.837	17244	6.4	24	-N	3 C		21		
667 RAMY	10	1606	1606	1619	S12	E12	.334	17255	11.6	13	-F	3 C		27		
GRP89668	10	1624+1	1628+3	1635	S19	W19	.488	17251	9.3	11	-F			40	.5	
HOLL	10	1624	1631	1634	S19	W18	.479	17251	9.3	10	-F	3 C		35		
RAMY	10	1625	1628	1635	S19	W20	.498	17251	9.2	10	-F	3 C		35		
669 HOLL	10	1731	1734	1756	N05	W59	.856	17245	6.3	25	-F	3 C		20		
670 HOLL	10	1808	1808	1816	S11	E09	.292	17255	11.4	8	-N	3 C		41		
671 HOLL	10	1929	1933	2022	S18	W22	.507	17251	9.2	53	-F	3 C		60		
672 HOLL	10	1941	2008	2022	N04	W65	.905	17245	5.9	41	-F	3 C		22		
673 HOLL	10	1959	2012	2017	N10	W57	.838	17244	6.6	18	-F	3 C		17		
674 HOLL	10	2000	2008	2017	S12	W59	.871	17246	6.4	17	-N	3 C		32		
675 HOLL	10	2025	2027	2047	S11	W56	.844	17246	6.7	22	-F	3 C		21		
676 CULG	10	2120	2121U	2122D	S08	E12	.285	17255	11.8	2D	-N	P	2121	40	.4	
GRP89677	10	2130+0	2136+2	2203	S09	W57	.850	17246	6.6	33	-N			80	1.5	
HOLL	10	2130	2138	2209	S10	W57	.851	17246	6.6	39	-N	3 C		91		
CULG	10	2130	2136	2156	S09	W58	.858	17246	6.5	26	-N	C	2136	80	1.6	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
678 HOLL	10	2145	2156	2159	N21	W87	.998	17236	4.4	14	-F	3	C		10		
GRP89679	10	2148+4	2157+6	2245	N09	W57	.838	17244	6.6	57	-N						
CULG	10	2148	2203	2254	N08	W61	.873	17244	6.3	66	-N		C	2203	100	1.9	
HOLL	10	2152	2157	2245D	N09	W57	.838	17244	6.6	53D	-B	3	C		48		
PALE	10	2158E	2158	2214	N15	W55	.823	17244	6.8	16D	-F	2	C		22		
GRP89680	10	2211+2	2213+1	2224	S11	E06	.269	17255	11.4	13	-N				80	.8	
HOLL	10	2211	2213	2217	S11	E06	.269	17255	11.4	6	-B	3	C		95		
BIGB	10	2213	2214	2224	S11	E07	.276	17255	11.5	11	-F	2	C	2214	70	.7	
PALE	10	2213E	2214	2224D	S10	E06	.254	17255	11.4	11D	-F	2	C		72		
GRP89681	10	2303+2	2305+3	2316	S10	E06	.254	17255	11.4	13	-N				90	.9	
CULG	10	2203	2308	2326	S09	E05	.232	17255	11.3	83	1B		C	2308	200	2.0	T
BIGB	10	2303	2305	2316	S11	E07	.276	17255	11.5	13	-F	2	C	2305	90	.9	
PALE	10	2305	2305	2316	S10	E06	.254	17255	11.4	11	-F	2	C		74		
682 CULG	10	2312	2318	2325	N25	W65	.913		6.1	13	-F		C	2318	40	.9	
GRP89683	10	2325	2328 2342	0023	S11	E11	.311	17255	11.8	58	-N						
CULG	10	2325	2342	0023	S11	E12	.321	17255	11.9	58	-N	*	C	2342	30	.9	T
HOLL	10	2326E	2328U	2333D	S12	E11	.324	17255	11.8	7D	-N	*	C		39		
GRP89684	11	0043+2	0047+2 0055	0103	S10	E04	.240	17255	11.3	20	-N				70	.7	D
CULG	11	0043	0049	0103	S10	E03	.236	17255	11.3	20	-N		C	0049	80	.8	
VORO	11	0045	0047	0053	S10	E07	.260	17255	11.6	8	-N		C	0047	68	.7	D
YUNN	11	0050E	0055	0105	S14	E04	.305	17255	11.3	15D	1N		P		241	2.6	
685 CULG	11	0104	0114	0129	N10	W60	.865	17244	6.5	25	-F		C	0114	40	.8	
GRP89686	11	0212+4	0220+2	0241	N09	W60	.865	17244	6.6	29	-N				70	1.4	
CULG	11	0212	0222	0247	N09	W61	.873	17244	6.5	35	-N		C	0222	80	1.5	T
MANI	11	0216	0222	0241	N09	W60	.865	17244	6.6	25	-F	2	P		80	1.5	
YUNN	11	0220E	0220	0230	N12	W60	.866	17244	6.6	10D	-N		C		64	1.4	
687 CULG	11	0214	0222	0252	S11	W62	.894	17246	6.4	38	-N		C	0222	60	1.2	
GRP89688	11	0220	0226	0248	S12	E09	.305	17255	11.8	28	-N						F
CULG	11	0220	0226	0258	S12	E08	.297	17255	11.7	38	-N		C	0226	80	.8	FT
YUNN	11	0237E	0237	0238	S12	E10	.314	17255	11.9	1D	-N		P		32	.4	
689 CULG	11	0310	0322	0358	N05	W65	.905	17245	6.3	48	-F		C	0322	60	1.3	T
690 CULG	11	0314	0321	0342	S12	W68	.935	17246	6.0	28	-F		C	0321	40	1.0	
691 CULG	11	0318	0329U	0409U	S13	E05	.294	17255	11.5	51D	-N		C	0329	100	1.0	T
692 CULG	11	0509	0516	0548	N08	W68	.926	17244	6.1	39	?N		C	0516	100	2.2	T
			IMP.1 NO : PURP MITK														
693 CULG	11	0522	0530	0618	S07	E45	.720	17260	14.6	56	?N		C	0530	180	2.7	F
			IMP.1 NO : MITK														
694 CULG	11	0552	0557	0605	N13	W68	.926	17244	6.1	13	-N		C	0557	30	.8	T
695 CULG	11	0607	0611	0634	N10	W62	.882	17244	6.6	27	?N		C	0611	120	2.6	FT
			IMP.1 NO : MITK PURP														
GRP89696	11	0625	0637+3	0645D	S11	E05	.262	17255	11.6	20	-N						FK
CULG	11	0625	0640U	0800U	S11	E05	.262	17255	11.6	95D	1N		C	0640	430	4.5	FTK
ATHN	11	0635E	0637	0645	S12	E06	.283	17255	11.7	10D	-N	3	V	0637	127	1.4	
697 CULG	11	0716	0724	0733	N10	W60	.865	17244	6.8	17	-N		C	0724	30	.6	T
GRP89698	11	0718+2	0725+1	0750	S12	E03	.269	17255	11.5	32	-N				160	1.7	
LEAR	11	0718	0725	0741	S12	E03	.269	17255	11.5	23	-B	*	C		71		
ATHN	11	0718	0726	0756D	S12	E05	.278	17255	11.7	38D	-B	*	V	0726	159	1.7	
CATA	11	0720	0725	0750D	S12	E03	.269	17255	11.5	30D	-F	*	P	0725	169	1.8	T

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP89699	11	0850>9	0900 0914	0949	S10	E03	.236	17255	11.6	59	-N					
CATA	11	0850E	0900	0950D	S12	E04	.273	17255	11.7	60D	1F	2 P	0900	337	3.6	T
ATHN	11	0910	0914	0947	S09	E03	.220	17255	11.6	37	-N	3 V	0914	175	1.9	
GRP89700	11	0900+9	0905+3 0914+4	0958	N12	W63	.890	17244	6.7	58	2B			310	6.9	I
CATA	11	0900	0905	0945	N12	W63	.890	17244	6.7	45	2F	2 C	0905	393	8.9	
LEAR	11	0906	0918	0958	N10	W63	.890	17244	6.7	52	2B	3 C		705		
LEAR	11	0906	0908	0909D	N10	W63	.890	17244	6.7	3D	1N	3 C		198		
ATHN	11	0908	0915	0956	N13	W68	.926	17244	6.3	48	2B	3 V	0915	223	5.9	
WEND	11	0909	0917	1001	N16	W61	.877	17244	6.8	52	2B	C	0917	306	6.8	I
KANZ	11	0909	0914	1000	N10	W63	.890	17244	6.7	51	2B	2				
701 LEAR	11	0956	0956	1000	S16	W33	.615	17251	8.9	4	-F	3 C		33		
GRP89702	11	1000+3	1008+8	1055	S12	E02	.267	17255	11.6	55	1N			220	2.3	EHZ
ATHN	11	1000E	1008	1050	S11	E03	.253	17255	11.6	50D	1B	3 V	1008	382	4.0	
KANZ	11	1000	1008	1055	S11	E03	.253	17255	11.6	55	2B	2				
LEAR	11	1001	1007U	1007D	S12	E02	.267	17255	11.6	6D	1B	3 C		221		
WEND	11	1003	1016	1036D	S12	E00	.264	17255	11.4	33D	1N	C	1016	275	2.9	F
CATA	11	1005E	1005	1005D	S12	E01	.265	17255	11.5		-F	2 P	1005	169	1.8	T
WEND	11	1007	1011	1041D	S11	E08	.282	17255	12.0	34D	-B	C	1011	38	.4	EHZ
CATA	11	1025E	1025	1025D	S12	E00	.264	17255	11.4		1F	2 P	1025	253	2.7	
KHAR	11	1030E	1030	1100	S12	W02	.267	17255	11.3	30	-F	P	1033	190	2.0	E
703 LVOV	11	1122	1130	1145	S09	E02	.216	17255	11.6	23	-F	4 C	1130	150	1.6	D
704 LVOV	11	1134	1136 IMP.1	1145 NO : WEND	S14 KANZ	W69	.943	17246	6.3	11	?F	4 C	1136	100		D
GRP89705	11	1405+0	1447	1520D	S12	00	.264	17255	11.6	75	1N					FI
RAMY	11	1405	1447	1455D	S12	E00	.264	17255	11.6	50D	1N	3 C		234		
KANZ	11	1405		1425D	S12	W01	.265	17255	11.5	20D	-N	1				
WEND	11	1450E		1520D	S12	E00	.264	17255	11.6	30D	1N	C	1456	200	2.1	FI
	11	1425	1450	NO FLARE PATROL												
GRP89706	11	1515+4	1520+0	1719	N10	W65	.905	17244	6.8	124	1B			170	4.1	D
HOLL	11	1515	1520	1722	N10	W65	.905	17244	6.8	127	1B	3 C		167		D
RAMY	11	1519	1520	1715	N11	W65	.905	17244	6.8	116	1B	3 C		178		
	11	1520	2013	NO FLARE PATROL												
707 RAMY	11	1545	1549	1549D	S12	W01	.265	17255	11.6	4D	-B	* C		99		
GRP89708	11	1724+1	1725+0	1747	S12	E03	.269	17255	11.9	23	1B			280	2.9	D
RAMY	11	1724	1725	1734	S13	E03	.286	17255	11.9	10	1B	* C		247		
HOLL	11	1725	1725	1800	S12	E03	.269	17255	12.0	4D	1B	* C		313		D
GRP89709	11	1729+2	1744+0	1823D	S11	W69	.940	17246	6.6	54	2B			400		D
RAMY	11	1729	1744	1745D	S11	W69	.940	17246	6.6	16D	2B	3 C		477		D
HOLL	11	1731	1744	1925	S11	W71	.951	17246	6.4	114	2B	3 C		404		D
PALE	11	1744E	1744	1823	S12	W69	.941	17246	6.6	39D	1B	2 C		205		D
710 RAMY	11	1744	1748	1813	N03	W78	.978	17245	5.9	29	-N	3 C		62		
GRP89711	11	1859>9	1909+0	1926	N11	W69	.932	17244	6.6	27	-N			35		
RAMY	11	1859	1909	1923	N11	W69	.932	17244	6.6	24	-N	3 C		36		
HOLL	11	1909	1909	1928	N11	W70	.938	17244	6.5	19	-N	3 C		32		
GRP89712	11	1921>9	2054+1 2114	2200	S13	W03	.286	17255	11.6	159	1N			200	2.1	D
HOLL	11	1921	2054	2157	S13	W03	.286	17255	11.6	156	1B	3 C		268		D
CULG	11	2049	2114	2200	S13	W05	.294	17255	11.5	71	1N	C	2114	280	2.8	F
PALE	11	2053E	2055	2126D	S12	W03	.269	17255	11.6	33D	-N	2 C		144		D
BIGB	11	2137E	2141	2210	S13	W04	.289	17255	11.6	33D	1N	2 P	2141	240	2.5	
GRP89713	11	2042+1	2046+2	2051	N10	W70	.938	17244	6.6	9	-N					
HOLL	11	2042	2048	2049D	N10	W71	.944	17244	6.5	7D	1N	3 C		222		
CULG	11	2043	2046	2051	N10	W70	.938	17244	6.6	8	-N	C	2046	80		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Time (UT)	Area Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
	11	2120	2126	NO FLARE PATROL												
714 HOLL	11	2213	2222	2244	S19	W35	.657	17251	9.3	31	-N	3 C		27		
715 HOLL	11	2238	2242	2252	S11	W07	.275	17255	11.4	14	-N	3 C		26		
GRP89716	11	2254+5	2259+3	2320	S13	W04	.289	17255	11.7	26	-F					
HOLL	11	2254	2259	2329D	S13	W05	.294	17255	11.6	35D	-N	3 C		79		
PALE	11	2259	2302	2311	S13	W04	.289	17255	11.7	12	-F	2 C		30		
GRP89717	11	2325+0	2334+0	2339	S19	W35	.657	17251	9.4	14	1F			180	2.4	K
CULG	11	2312	2318	2343	S19	W36	.667	17251	9.3	31	-F	C	2318	120	1.6	K
LEAR	11	2325	2334	2335D	S19	W35	.657	17251	9.4	10D	1F	3 C		180		
BIGB	11	2325	2334	2335	S19	W34	.646	17251	9.4	10	1F	3 C	2334	180	2.2	
GRP89718	11	2336+5	2341+0	0008	S12	W03	.269	17255	11.8	32	-N					FK
CULG	11	2336	2341	0017	S12	W03	.269	17255	11.8	41	1B	* C	2341	240	2.4	FTK
PALE	11	2341	2341	2359	S13	W04	.289	17255	11.7	18	-F	* C		88		
719 CULG	11	2338	2343	0000	N20	E62	.888	17266	16.6	22	-F	C	2343	30	.8	
720 CULG	11	2343	2346	0006	N13	E38	.626	17265	14.8	23	-N	C	2346	60	.8	
GRP89721	12	0032>9	0032+5 0117+9	0138	S13	W08	.310	17255	11.4	66	1N					FK
PEKG	12	0035	0037	0125	S13	W07	.303	17255	11.5	50	1N	* P	0035	421	4.5	FK
PEKG	12	0035	0117	0125	S14	W08	.325	17255	11.4	50	1N	* P	0117	399	4.3	F
CULG	12	0112	0121	0138	S12	W03	.267	17255	11.8	26	-N	* C	0121	120	1.2	T
YUNN	12	0125	0126	0145	S14	W09	.332	17255	11.4	20	-N	* C		161	1.8	
LEAR	11	2338	2432	0039D	S12	W08	.297	17255	11.4	61D	1N	* C		225		
	12	0051	0103	NO FLARE PATROL												
722 CULG	12	0115	0130	0209	S18	E30	.593	17261	14.3	54	-F	C	0130	60	.8	G
723 YUNN	12	0145	0145	0146	N15	W72	.950	17244	6.7	1	-N	C		64		
GRP89724	12	0228>9	0235 0249+5	0308	S13	W07	.303	17255	11.6	40	1N					IK
YUNN	12	0228	0235	0240	S14	W08	.325	17255	11.5	12	1N	C		193	2.1	
LEAR	12	0236	0252	0257D	S13	W06	.297	17255	11.7	21D	1B	3 C		234		D
CULG	12	0237	0249	0326U	S13	W07	.303	17255	11.6	49D	1B	C	0249	300	3.1	T
PALE	12	0243	0251	0309D	S12	W06	.281	17255	11.7	26D	-N	2 C		152		D
YUNN	12	0244	0253	0303	S13	W08	.310	17255	11.5	19	2N	P		563	6.1	EK
PEKG	12	0250	0254	0325	S13	W07	.303	17255	11.6	35	1B	P	0256	420	4.5	FI
MITK	12	0259E	0000	0307D	S12	W08	.295	17255	11.5	8D	1F	P	0305	240		EF
725 CULG	12	0247	0302	0330	N12	W75	.964	17244	6.5	43	-F	C	0302	60		
726 CULG	12	0312	0324	0343	S18	W45	.756	17251	8.8	31	-F	C	0324	80	1.2	
727 CULG	12	0338	0343	0359	N14	E12	.276		13.1	21	-F	C	0343	80	.8	G
GRP89728	12	0357	0409	0440	S13	W08	.310	17255	11.6	43	-N					E
CULG	12	0357	0409	0440	S12	W05	.276	17255	11.8	43	-N	C	0409	100	1.0	T
PEKG	12	0359E	0359	0359D	S15	W12	.371	17255	11.3		-N	P	0359	134	1.5	E
729 CULG	12	0359	0412	0425	N13	E35	.587	17265	14.8	26	-F	C	0412	80	1.0	G
730 CULG	12	0402	0407	0418	N12	W23	.413		10.4	16	-F	C	0407	60		
GRP89731	12	0439+7	0452>9	0519	N12	W75	.964	17244	6.6	40	3B					AFHI
CULG	12	0439	0501	0642	N12	W73	.955	17244	6.7	123	3B	C	0501	1100		J
PEKG	12	0445	0452	0505	N12	W78	.977	17244	6.3	20	3B	P	0452	505		FIZ
LEAR	12	0446	0455	0455D	N10	W72	.950	17244	6.8	9D	3B	3 C				
MITK	12	0446	0459	0525	N12	W78	.977	17244	6.3	39	2B	C		780		FH
YUNN	12	0456E	0503	0512D	N14	W75	.964	17244	6.6	16D	3B	P		644		AEFI
732 CULG	12	0503	0512	0527	S10	W86	.998	17246	5.8	24	-F	C	0512	30		
733 CULG	12	0519	0520	0532	N13	E35	.587	17265	14.8	13	-F	C	0520	80	1.0	G

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
734 CULG	12	0544	0547	0555	S14	W07	.318	17255	11.7	11	-N		C	0547	140	1.4	T
735 YUNN	12	0609	0612	0614	S16	W11	.376	17255	11.4	5	-N		C		64	.7	
GRP89736	12	0659+6	0706+4	0720D	S11	W10	.298	17255	11.5	21	1B				250	2.6	KV
LEAR	12	0659	0706	0708D	S11	W05	.260	17255	11.9	9D	-B	3	C		138		
YUNN	12	0702	0705	0705D	S15	W11	.362	17255	11.5	3D	2B		P		562		EK
CULG	12	0705	0710	0753	S11	W09	.289	17255	11.6	48	1B		C	0710	300	3.1	FVT
PEKG	12	0712E	0712	0720	S12	W11	.321	17255	11.5	8D	1N		P	0712	210	2.4	EF
	12	0828	0841	NO FLARE PATROL													
737 LVOV	12	1102	1104	1124	S12	W10	.312	17255	11.7	22	1F	5	C	1104	300	3.3	E
738 RAMY	12	1153	1154	1207	N11	W78	.977	17244	6.6	14	-N	3	C		67		
739 LVOV	12	1159	1201	1214	S10	W06	.251	17255	12.0	15	-F	4	C	1201	150	1.6	D
GRP89740	12	1212+1	1213+1	1225	N09	W79	.980	17244	6.6	13	-B						
RAMY	12	1212	1213	1220	N09	W77	.973	17244	6.7	8	-B	3	C				
ATHN	12	1213	1214	1229	N10	W81	.987	17244	6.4	16	-B	3	V	1214	48		
741 RAMY	12	1213	1215	1224	S18	W48	.786	17251	8.9	11	-F	3	C		20		
742 LVOV	12	1214	1219	1230	S10	W10	.285	17255	11.8	16	?F	*	C	1219	300	3.3	D
			IMP.1 NO : RAMY														
743 RAMY	12	1323	1324	1341	N11	W79	.980	17244	6.6	18	-F	3	C		48		
744 RAMY	12	1338	1339	1412	S19	W43	.740	17251	9.3	34	-F	3	C		20		
	12	1400	1511	NO FLARE PATROL													
GRP89745	12	1502+2	1511+0	1516	N09	W76	.969	17244	6.9	14	-F				30		
HOLL	12	1502	1511	1517	N07	W73	.955	17244	7.2	15	-F	3	C		27		
RAMY	12	1504	1511	1514	N11	W80	.984	17244	6.6	10	-F	3	C		25		
746 HOLL	12	1511	1514	1534	S17	W50	.802	17251	8.9	23	-N	3	C		22		
GRP89747	12	1520>9	1538+0	1547	S14	W10	.340	17255	11.9	27	-N				50	.5	D
HOLL	12	1520	1538	1552	S14	W10	.340	17255	11.9	19D	-B	*	C		67		
RAMY	12	1537	1538	1542	S15	W10	.354	17255	11.9	5	-N	*	C		30		
GRP89748	12	1642+0	1702+2	1718	S14	W11	.348	17255	11.9	36	1B				240	2.6	D
BIGB	12	1642	1702	1718	S13	W11	.335	17255	11.9	36	1B	2	C	1702	240	2.5	
HOLL	12	1642	1702	1718	S14	W11	.348	17255	11.9	36	1B	3	C		275		D
RAMY	12	1658	1704	1716	S14	W12	.357	17255	11.8	18	-B	3	C		186		
GRP89749	12	1728+3	1737+1	1801	S13	W15	.375	17255	11.6	33	-N				120	1.3	
HOLL	12	1728	1738	1810	S13	W15	.375	17255	11.6	42	-N	3	C		132		
BIGB	12	1731	1737	1801	S15	W15	.399	17255	11.6	30	-N	2	C	1737	120	1.3	
RAMY	12	1731	1737	1801	S13	W15	.375	17255	11.6	30	-N	3	C		115		
GRP89750	12	1831+1	1834+0	1842	N07	W79	.981	17244	6.8	11	-N						
RAMY	12	1831	1834	1840	N07	W83	.992	17244	6.5	9	-N	3	C				
HOLL	12	1832	1834	1843	N07	W75	.965	17244	7.1	11	-N	3	C		67		
GRP89751	12	1839+2	1842+3	1853	S12	W18	.399	17255	11.4	14	-F						
HOLL	12	1839	1845	1856	S13	W18	.409	17255	11.4	17	-N	3	C		58		
PALE	12	1841	1842	1849	S11	W18	.389	17255	11.4	8	-F	3	C		24		
GRP89752	12	2011>9	2100+4 2140	2212	S12	W18	.399	17255	11.5	121	-N						FK
CULG	12	2011	2100	2127U	S12	W17	.387	17255	11.6	76D	1N		C	2100	260	2.9	FKT
HOLL	12	2102	2104	2205	S12	W19	.411	17255	11.5	63	-N	2	C		99		
CULG	12	2138	2140	2218	S12	W18	.399	17255	11.6	40	-N		C	2140	160	1.8	T
GRP89753	12	2142+0	2144+0	2150	N08	W82	.989	17244	6.8	8	-F						
HOLL	12	2142	2144	2150	N07	W76	.969	17244	7.2	8	-F	2	C				
CULG	12	2142	2144	2150	N10	W88	.999	17244	6.3	8	-F		C	2144	50		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
754 CULG	12	2149	2156	2209	S18	W54	.841	17251	8.9	20	-N	C	2156	100	1.7	
GRP89755	12	2224+8	2243+4	2327	S12	W19	.411	17255	11.5	63	1B			290	3.2	FG
CULG	12	2224	2247	2336D	S12	W23	.461	17255	11.2	72D	2B	C	2247	480	5.3	FT
HOLL	12	2228	2243	2325D	S13	W18	.409	17255	11.6	57D	1B	2 C		374		
LEAR	12	2231	2243	2245D	S12	W19	.411	17255	11.5	14D	1B	3 C		215		
PALE	12	2232	2247	2321	S13	W18	.409	17255	11.6	49	1N	3 C		207		
MANI	12	2306E	2306U	2317	S11	W20	.414	17255	11.5	11D	1N	2 P		200	2.3	F
VORO	12	2317E		2335	S12	W17	.387	17255	11.7	18D	-N	C	2321	156	1.8	EG
756 CULG	12	2232	2238	2250	N18	E48	.758	17266	16.5	18	-F	C	2238	40	.6	
757 HOLL	12	2310	2317	2320	N09	W85	.996	17244	6.6	10	-F	2 C				
GRP89758	12	2337+0	2338+0	2346	S12	W18	.399	17255	11.6	9	-F			60	.7	
PALE	12	2337	2338	2349	S11	W20	.414	17255	11.5	12	-F	* C		46		D
VORO	12	2337	2338	2342	S13	W16	.386	17255	11.8	5	-N	* C	2338	68	.7	E
GRP89759	13	0018>9	0018 0036+6	0112D	S12	W20	.422	17255	11.5	54	2B					FGHJ
YUNN	13	0025E	0042	0047D	S12	W20	.422	17255	11.5	22D	2B	* P		723	8.2	EFHJ
MANI	13	0030	0038	0048D	S12	W19	.410	17255	11.6	18D	1N	* P		250	2.8	F
VORO	13	0032	0036	0112	S12	W15	.362	17255	11.9	40	1B	* C	0036	358	3.9	EG
PEKG	13	0046E	0046	0047D	S11	W21	.426	17255	11.5	1D	1B	* P	0047	420	4.8	F
CULG	12	2336	2418	0157	S12	W22	.448	17255	11.3	141	3B	* C	2418	1320	14.5	FKTL
760 PEKG	13	0020	0021	0022	N11	W87	.998	17244	6.5	2	?N	P	0020	55		D
		IMP.1 NO : CULG VORO YUNN														
761 YUNN	13	0025E	0025	0040E	N08	W82	.989	17244	6.9	15D	?N	P		64		A
		IMP.1 NO : CULG VORO														
762 YUNN	13	0118E	0118	0118D	N14	W90	1.000	17244	6.3		?N	P		96		E
		IMP.1 NO : CULG VORO PURP														
763 CULG	13	0129	0138	0149	N38	W34	.728		10.5	20	-F	C	0138	80	1.1	G
GRP89764	13	0241+6	0241	0257D	S14	W17	.407	17255	11.8	16	-N					D
PEKG	13	0241E	0241	0257	S15	W17	.418	17255	11.8	16D	-N	P	0241	50	.6	D
CULG	13	0247	0300	0320	S14	W15	.385	17255	12.0	33	-N	C	0300	140	1.5	T
CULG	13	0306	0315	0333	S11	W21	.426	17255	11.6	27	-N	C	0315	120	1.3	T
765 CULG	13	0318	0326	0332	S15	W60	.884	17251	8.6	14	-F	C	0326	80	1.8	
766 CULG	13	0406	0410	0424	S08	W15	.319	17255	12.0	18	?N	C	0410	190	2.1	FT
		IMP.1 NO : PURP														
GRP89767	13	0427>9	0434 0507	0508	S14	W29	.551	17255	11.0	41	-N					
CULG	13	0427	0434	0507	S17	W32	.608	17255	10.8	40	-N	C	0434	80	1.0	
YUNN	13	0505	0507	0509	S11	W26	.492	17255	11.3	4	-N	C		48	.6	
768 CULG	13	0504	0509	0520	S19	W55	.852	17251	9.1	16	?F	C	0509	100	2.0	
		IMP.1 NO : PURP MITK YUNN														
GRP89769	13	0623+4	0631+1	0638	S16	E58	.870	17269	17.6	15	-N					G
YUNN	13	0623	0632	0637	S17	E58	.872	17269	17.6	14	-N	C		32	.7	G
CULG	13	0627	0631	0639	S15	E58	.868	17269	17.6	12	-N	C	0631	80	1.8	T
GRP89770	13	0727+4	0732+1	0735	N18	E35	.607	17266	15.9	8	-B			80	1.0	D
YUNN	13	0727D	0732	0735	N18	E36	.619	17266	16.0	8D	-N	P		64	.8	
CULG	13	0731	0733	0741	N18	E35	.607	17266	15.9	10	-B	C	0733	100	1.3	
PEKG	13	0731	0732	0735	N19	E35	.612	17266	15.9	4	-B	P	0731	92	1.2	D
GRP89771	13	0739+5	0745+0	0759	S16	W60	.885	17251	8.8	20	-N					
CULG	13	0739	0745	0755	S16	W58	.870	17251	9.0	16	-N	C	0745	90	1.9	F
ISTA	13	0741		0805	S16	W61	.893	17251	8.7	24	-N					E
YUNN	13	0744	0745	0759	S15	W60	.884	17251	8.8	15	-F	C		32	.8	

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GRP89772	13	0753+5	0759	0810	S09	W21	.410	17255	11.8	17	-F						E
ISTA	13	0753		0808	S09	W19	.382	17255	11.9	15	-F						E
YUNN	13	0758	0759	0812	S10	W23	.444	17255	11.6	14	-N		C		112	1.3	
GRP89773	13	0816+3	0830+0	0909	S13	W25	.494	17255	11.5	53	-N						EK
YUNN	13	0816	0830	0911	S12	W25	.486	17255	11.5	55	1N		C		353	4.2	EK
HTPR	13	0819	0830	0852	S13	W25	.494	17255	11.5	33	-N		C	0830	60	.7	E
ISTA	13	0835		0909	S13	W26	.506	17255	11.4	34	-B						E
774 YUNN	13	0907E	0907	0907D	S20	W56	.862	17251	9.2		-N		P		48	1.0	
GRP89775	13	1000	1135 1148	1200	S13	W28	.532	17255	11.3	120	-N						
HTPR	13	1000	1135	1200	S12	W30	.551	17255	11.2	120	-N		C	1135	50	.6	
HTPR	13	1144	1148	1151	S14	W27	.526	17255	11.5	7	-F		C	1148	50	.6	
776 HTPR	13	1235	1238	1240	S11	W20	.413	17255	12.0	5	-F		C	1238	20	.2	
777 HTPR	13	1258	1307	1316	S14	W21	.453	17255	12.0	18	-F		C	1307	10	.1	
778 HTPR	13	1332	1335	1342	S13	W27	.519	17255	11.5	10	-N		C	1335	60	.7	E
779 HTPR	13	1421	1424	1436	S14	W25	.502	17255	11.7	15	-F		C	1424	20	.2	
780 HTPR	13	1504	1507	1514	S14	W26	.514	17255	11.7	10	-B		C	1507	30	.3	
781 BIGB	13	1619	1621	1641	N15	E65	.907	17268	18.6	22	-F	2	C	1621	30	.7	
GRP89782	13	1848>9	1919+5 1935	2207	S15	W32	.595	17255	11.4	199	1N				370	4.6	FK
BIGB	13	1848	1924	2208	S16	W32	.601	17255	11.4	200	2B	3	C	1924	460	6.0	
PALE	13	1858	1919	2004	S12	W29	.538	17255	11.6	66	1N	2	C		279		D
PALE	13	1858	1935	2004	S12	W29	.538	17255	11.6	66	1N	2	C		367		D
CULG	13	2009E	2009E	2205U	S17	W37	.665	17255	11.1	116D	1N		P	2009	340	4.4	F
CULG	13	2020	2053U	2210U	S17	W42	.720	17255	10.7	110D	-N		C	2053	60	.8	
CULG	13	2127	2139U	2158U	S12	W28	.525	17255	11.8	31D	1N		C	2139	330	3.9	FKT
CULG	13	2155	2200	2206	S13	W26	.506	17255	12.0	11	-N		C	2200	80	1.0	T
783 CULG	13	2014	2019	2024	N19	E35	.612	17266	16.5	10	-F		C	2019	100	1.3	
784 CULG	13	2033	2050	2104	N19	E35	.612	17266	16.5	31	-N		C	2050	70	.9	K
785 CULG	13	2210	2222	2233	N18	E27	.505	17266	15.9	23	-N		C	2222	40	.5	
GRP89786	13	2220+9	2228+2	2242	S13	W28	.532	17255	11.8	22	-F						
CULG	13	2220	2228	2241	S13	W26	.506	17255	12.0	21	-N		C	2228	100	1.2	T
HOLL	13	2229	2230	2242	S13	W31	.570	17255	11.6	13	-F	1	C		27		
787 CULG	13	2246	2249	2308	N20	E34	.605	17266	16.5	22	-F		C	2249	100	1.2	H
788 CULG	14	0040	0044	0053	S06	W34	.575	17255	11.5	13	-N		C	0044	80	1.0	TH
789 CULG	14	0053	0118	0159	S13	W27	.518	17255	12.0	66	1N		C	0118	280	3.4	TF
790 CULG	14	0103	0111	0122	S18	E44	.745	17269	17.3	19	-N		C	0111	60	1.0	
791 CULG	14	0115	0118	0126	S16	W68	.939	17251	9.0	11	-N		C	0118	60		
GRP89792	14	0217+3	0228+2	0239	S14	W34	.612	17255	11.5	22	1N				240	3.0	FK
PEKG	14	0217	0228	0237	S13	W32	.582	17255	11.7	20	1F		P	0221	164	2.1	F
CULG	14	0218	0230	0235D	S18	W38	.681	17255	11.2	17D	1N		P	0230	250	3.5	FT
YUNN	14	0220	0228	0240	S14	W34	.612	17255	11.5	20	1N		C		241	3.1	EK
793 CULG	14	0246	0259	0305	S13	W27	.518	17255	12.1	19	-N		C	0259	80	1.0	FKT
794 CULG	14	0323	0325	0332	N18	E26	.493	17266	16.1	9	-N		C	0325	60	.7	
795 CULG	14	0337	0344	0351	S12	W28	.524	17255	12.1	14	-N		C	0344	120	1.4	FKT

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GRP89796	14	0351+3	0354+1	0406	S12	W34	.601	17255	11.6	15	-N						E
CULG	14	0351	0354	0403	S12	W34	.601	17255	11.6	12	-B		C	0354	80	1.0	T
MITK	14	0354	0355	0408	S12	W35	.614	17255	11.5	14	-N		C				E
797 YUNN	14	0407	0409	0424	S11	W34	.596	17255	11.6	17	-N		C		113	1.4	EK
GRP89798	14	0407+2	0409+2	0417	N21	E32	.587	17266	16.6	10	1N				260	3.2	EH
CULG	14	0407	0411	0430	N22	E32	.594	17266	16.6	23	1B		C	0411	360	4.5	
LEAR	14	0408	0409	0412D	N20	E31	.569	17266	16.5	4D	1F	3	C		206		
MITK	14	0408	0410	0417	N22	E34	.617	17266	16.7	9	1N		C		170		EH
YUNN	14	0409	0409	0415	N20	E33	.593	17266	16.6	6	1N		C		321	4.3	
799 CULG	14	0429	0436	0531	N18	E68	.928	17268	19.3	62	?F		C	0436	160		
			IMP.1 NO : YUNN MITK														
800 CULG	14	0434	0507	0534	N30	W22	.561		12.5	60	-F		C	0507	60	.7	GH
GRP89801	14	0454	0456+4 0509	0524	S11	W36	.622	17255	11.5	30	-N				120	1.5	
CULG	14	0454	0456	0509	S11	W38	.647	17255	11.4	15	1N		C	0456	160	2.1	T
YUNN	14	0459E	0500	0519	S10	W38	.643	17255	11.4	20D	-N		P		80	1.1	
CULG	14	0503	0509	0529	S15	W29	.558	17255	12.0	26	-N		C	0509	80	1.0	T
802 CULG	14	0550	0604	0703	N09	E23	.401	17267	16.0	73	1F		C	0604	260	2.9	F
803 CULG	14	0617	0628	0650	S09	E03	.214	17260	14.5	33	-N		C	0628	120	1.2	
GRP89804	14	0639+7	0645+7	0715	S12	W32	.576	17255	11.9	36	1N				220	2.7	F
CULG	14	0639	0652	0715	S12	W32	.576	17255	11.9	36	1N		C	0652	280	3.3	FT
LEAR	14	0641	0647	0653D	S12	W38	.651	17255	11.4	12D	1N	2	C		182		
TACH	14	0642	0645	0653D	S13	W33	.594	17255	11.8	11D	1N		C	0645	265	3.4	E
MANI	14	0646	0650	0655D	S13	W32	.582	17255	11.9	9D	-F	2	P		110	1.4	F
GRP89805	14	0715E	0720 0730	0749	S14	W31	.575	17255	12.0	34	-N				80	1.0	
HTPR	14	0715E		0751	S14	W30	.563	17255	12.1	36D	-B		C	0726	120	1.4	
YUNN	14	0715E	0720	0725D	S14	W32	.588	17255	11.9	10D	-N		P		80	1.0	
CATA	14	0725	0730	0745D	S15	W32	.594	17255	11.9	20D	-F	2	P	0730	84	1.1	
WEND	14	0733E		0747	S15	W31	.582	17255	12.0	14D	-N		C	0733	53	.7	
GRP89806	14	0800	0804 0811	0913	S14	W35	.624	17255	11.7	73	1N						AEI
HTPR	14	0800	0804	0920	S14	W32	.588	17255	11.9	80	-N		C	0804	100	1.2	EIA
KANZ	14	0803E	0811	0906	S14	W34	.612	17255	11.8	63D	1N	3					B
CATA	14	0810E	0820	0900D	S14	W37	.648	17255	11.6	50D	2F	2	P	0820	478	6.5	
WEND	14	0839E		0901D	S17	W43	.730	17255	11.1	22D	-F		C	0839	100	1.5	B
GRP89807	14	0847E	0901	0906D	N13	W90	1.000	17247	7.6	19	?F						AFJ
ABST	14	0847E	0901	0906D	N10	W90	1.000	17247	7.6	19D	?N		P	0901	176		AFJ
			IMP.2 NO : HTPR BERN KANZ WEND														
ABST	14	0859	0901	0904D	N17	W90	1.000	17247	7.6	5D	1N		P	0901	105		ADJ
GRP89808	14	0922+2	0924+6	0934	S06	W39	.642	17255	11.5	12	-F				80	1.0	E
HTPR	14	0922	0930	0933	S07	W39	.645	17255	11.5	11	-N		C	0930	70	.9	E
WEND	14	0924	0924	0935	S06	W39	.642	17255	11.5	11	-F		C	0924	88	1.2	
GRP89809	14	0943+2	0944 0950+2	0954	S13	W35	.619	17255	11.8	11	-N				35	.4	EI
HTPR	14	0927	0950	1014	S13	W40	.680	17255	11.4	47	-N		C	0950	20	.3	E
YUNN	14	0943	0944	0945	S14	W32	.588	17255	12.0	2	-N		C		64	.8	
HTPR	14	0945	0950	1010	S14	W31	.575	17255	12.1	25	-F		C	0950	20	.2	
YUNN	14	0950	0952	0954D	S12	W40	.675	17255	11.4	4D	-N		P		32	.5	IT
GRP89810	14	1026+4	1029+1	1044D	S15	W32	.594	17255	12.0	18	-F						D
HTPR	14	1026	1029	1154	S14	W32	.588	17255	12.0	88	-F		C	1126	30	.3	
LVOV	14	1027	1030	1044	S15	W31	.582	17255	12.1	17	-F	4	C	1030	100	1.3	D
WEND	14	1030		1044D	S15	W32	.594	17255	12.0	14D	-F		C	1030	37	.5	D

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GRP89811	14	1114>9	1126+1 1140	1154	S15	W32	.594	17255	12.1	40	-F						D
HTPR	14	1026	1126	1154	S14	W32	.588	17255	12.0	88	-F		C				
LVOV	14	1114	1140	1155	S15	W31	.582	17255	12.1	41	-F	4	C	1140	100	1.3	D
KANZ	14	1123	1127	1153	S16	W32	.600	17255	12.1	30	-N	2					
WEND	14	1126	1126	1153	S15	W33	.606	17255	12.0	27	-N		C	1126	38	.5	D
GRP89812	14	1225	1226+2	1257	S09	W34	.587	17255	12.0	32	-F						E
HTPR	14	1225	1228	1257	S08	W32	.556	17255	12.1	32	-F		C	1228	30	.5	E
HTPR	14	1225	1226	1246	S10	W37	.630	17255	11.7	21	-F		C	1226	20	.3	
GRP89813	14	1251+4	1255+3	1307	S14	W41	.695	17255	11.5	16	-N				130	1.8	D
HTPR	14	1251	1255	1306	S13	W41	.691	17255	11.5	15	-N		C	1255	80	1.0	
LVOV	14	1252	1255	1301	S14	W40	.684	17255	11.5	9	1N	4	C	1255	200	2.9	D
WEND	14	1253	1257	1308	S13	W41	.691	17255	11.5	15	-N		C	1257	87	1.2	
KANZ	14	1254	1258	1306	S15	W42	.711	17255	11.4	12	-N	2					
CATA	14	1255	1255	1310	S14	W42	.707	17255	11.4	15	1F	2	C	1255	169	2.4	
GRP89814	14	1355+5	1359+1	1420	S15	W34	.618	17255	12.0	25	-N				60	.8	
KANZ	14	1332	1400	1414	S16	W33	.612	17255	12.1	42	-N	1					
WEND	14	1355E		1410D	S15	W34	.618	17255	12.0	15D	-N		C	1403	50	.6	
HTPR	14	1355	1359	1420	S14	W33	.600	17255	12.1	25	-N		C	1359	50	.6	
RAMY	14	1357	1359	1457	S13	W41	.691	17255	11.5	60	-N	3	C		70		
CATA	14	1400	1400	1405D	S15	W34	.618	17255	12.0	5D	-F	2	P	1400	56	.7	
815 HTPR	14	1516	1519	1530	S14	W33	.600	17255	12.2	14	-F		C	1519	10	.1	
GRP89816	14	1539+5	1544+0	1718	S16	W39	.682	17255	11.7	99	1B						I
RAMY	14	1459	1544	1652	S16	W39	.682	17255	11.7	113	2B	3	C		706		D
BIGB	14	1539	1544	1718	S16	W39	.682	17255	11.7	99	1B	3	C	1544	240	3.2	
HTPR	14	1539		1548D	S14	W37	.648	17255	11.9	9D	1B		C	1546	250	3.1	EI
HOLL	14	1544	1544	1718	S17	W42	.720	17255	11.5	94	2B	3	C		520		
817 HOLL	14	1617	1620	1632	N17	E57	.845	17268	19.0	15	-N	2	C		16		
GRP89818	14	1829+0	1850+0	1910	S15	W44	.733	17255	11.5	41	1B				180	2.6	D
HOLL	14	1829	1850	1851D	S15	W44	.733	17255	11.5	22D	1B	2	C		183		D
BIGB	14	1829	1850	1910	S15	W44	.733	17255	11.5	41	1B	3	C	1850	190	2.7	
819 CULG	14	2122	2133	2148	S15	W48	.775	17255	11.3	26	-F		C	2133	40	.6	
GRP89820	14	2210+3	2216+3	2250	S13	W44	.726	17255	11.6	40	-N				60	.9	FK
CULG	14	2210	2219	2250	S13	W45	.737	17255	11.5	40	-N		C	2219	50	.8	FK
HOLL	14	2213	2216	2218D	S14	W43	.718	17255	11.7	5D	-B	3	C		75		
821 CULG	14	2244	2251	2303	S05	E65	.909		19.8	19	-F		C	2251	60	.9	G
822 CULG	14	2310	2318	2328	S20	E60	.892	17273	19.5	18	-F		C	2318	10	.2	
GRP89823	14	2346+8	2359+5 2425+3	0100	S14	W47	.761	17255	11.5	74	2N				380	5.8	FGHK
BIGB	15	0001E	0028	0034D	S14	W48	.771	17255	11.4	33D	1N	3	P	0028	240	3.7	
YUNN	15	0014E	0025	0030E	S14	W46	.750	17255	11.6	16D	2B		P	0025	353	5.9	EKT
MITK	24	2346	2403	0114	S13	W47	.754	17255	21.5	88	2B		C		600		FZ
CULG	14	2351	2404	0140	S13	W45	.737	17255	11.6	109	2N		C	2404	440	6.6	F
PALE	14	2352	2359	0046	S14	W48	.772	17255	11.4	54	1B	3	C		315		
VORO	14	2354	2401	0043	S14	W49	.782	17255	11.3	49	1N		C	2401	246	3.8	EGHK
MANI	14	2355E	2400	0008D	S11	W44	.719	17255	11.7	13D	1N	1	V		240	3.6	F
824 CULG	15	0030	0036	0052	N18	E49	.770	17268	18.7	22	-N		C	0036	80	1.1	
825 CULG	15	0205	0206	0211	S09	W51	.790	17255	11.3	6	-F		C	0206	20	.3	
826 CULG	15	0313	0320	0330	S12	W48	.766	17255	11.5	17	-F		C	0320	30	.4	
827 CULG	15	0315	0320	0346	S14	W69	.942	17249	10.0	31	?F		C	0320	120		
			IMP.1 NO : MITK														
828 YUNN	15	0332E	0332	0340	S14	W42	.706	17255	12.0	8D	-N		P		64	1.0	
829 YUNN	15	0516E	0516	0517	S12	W40	.675	17255	12.2	1D	-N		P		48	.7	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale Cen Dist	Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP89830	15	0540+0	0542+4	0606	S10	W47	.749	17255	11.7	26	1N						
PEKG	15	0540	0542	0606	S10	W47	.749	17255	11.7	26	2B		P	0546	547	8.5	F
MITK	15	0540	0546	0615	S10	W47	.749	17255	11.7	35	1N		C		220		E
YUNN	15	0556E	0556	0603	S11	W46	.741	17255	11.8	7D	1N		P		161	2.5	
GRP89831	15	0713	0717	0742	S13	W46	.747	17255	11.9	29	-F				110	1.6	EK
YUNN	15	0713	0717	0735	S14	W45	.740	17255	11.9	22	-F		C		117	1.7	EK
HTPR	15	0721E		0745D	S13	W46	.747	17255	11.9	24D	-N		C	0728	130	1.8	EKB
MANI	15	0727E	0727U	0742D	S12	W47	.755	17255	11.8	15D	-F	1	V		100	1.6	F
832 YUNN	15	0755	0800	0805	S14	W44	.729	17255	12.0	10	-F		C		32	.5	
833 YUNN	15	0851	0851	0855D	S12	W42	.699	17255	12.2	4D	-N		P		48	.7	
GRP89834	15	0953	0955 1027	1033	S12	W44	.722	17255	12.1	40	-N						
HTPR	15	0953	0955	1030	S13	W47	.758	17255	11.9	37	-N		C	0955	40	.6	
HTPR	15	1023	1027	1033	S11	W42	.695	17255	12.3	10	-F		C	1027	10	.1	
835 HTPR	15	1041	1042	1044	S11	W42	.695	17255	12.3	3	-F		C	1042	20	.3	
836 HTPR	15	1053	1057	1120	N22	E22	.480	17266	17.1	27	-N		C	1057	50	.5	E
GRP89837	15	1256+6	1310+4 1358	1406	N19	E12	.341	17266	16.4	70	-B				170	1.8	E
HTPR	15	1256	1310	1407	N18	E12	.328	17266	16.4	71	-B		C	1310	140	1.4	E
RAMY	15	1302	1312	1357	N17	E07	.271	17266	16.1	55	1B	3	C		211		D
HTPR	15	1302	1310	1345	N24	E13	.416	17266	16.5	43	-N		C	1310	30	.3	
ATHN	15	1310E	1314	1337	N19	E13	.351	17266	16.5	27D	-B	2	V	1314	48	.5	
RAMY	15	1358	1358	1406	N17	E07	.271	17266	16.1	8	-F	3	C		23		
GRP89838	15	1334+5	1338+8	1410D	S15	W52	.814	17255	11.7	36	-N				80	1.4	I
HTPR	15	1334	1338	1342	S15	W55	.841	17255	11.4	8	-F		C	1338	60	1.0	E
RAMY	15	1336	1341	1445	S16	W56	.852	17255	11.4	69	-B	3	C		136		D
ATHN	15	1339	1342	1400D	S15	W41	.699	17255	12.5	21D	-B	2	V	1342	95	1.5	
HTPR	15	1340	1346	1410	S13	W49	.779	17255	11.9	30	-F		C	1346	40	.6	EI
GRP89839	15	1519+1	1521 1550+0	1731	S13	W50	.789	17255	11.9	132	1B						EI
HTPR	15	1519		1549D	S13	W50	.789	17255	11.9	30D	1B		C	1544	170	2.7	EI
RAMY	15	1520	1521	1528D	S16	W48	.778	17255	12.0	8D	-B	3	C		32		
BIGB	15	1540	1550	1731	S12	W53	.816	17255	11.7	111	1B	3	C	1550	160	2.7	
RAMY	15	1540	1550	1731D	S12	W53	.816	17255	11.7	111D	1B	3	C		455		D
840 RAMY	15	1802	1802	1826	S13	W55	.837	17255	11.6	24	-B	3	C		52		
841 CULG	15	2008E	2016U IMP.1 NO : BIGB	2100U	S15	W52	.814	17255	11.9	52D	?N		C	2016	220	3.7	FKT
842 CULG	15	2108	2114 IMP.1 NO : BIGB	2138	S14	W51	.802	17255	12.1	30	?N		C	2114	120	2.0	T
843 CULG	15	2132	2138 IMP.1 NO : BIGB	2233	N19	E11	.332	17266	16.7	61	?N		C	2138	230	2.4	U
844 CULG	15	2144	2149 IMP.1 NO : BIGB	2229	S02	W58	.850	17255	11.6	45	?N		C	2149	250	4.8	FT
845 CULG	15	2226	2233	2235D	S10	W60	.876	17255	11.4	9D	-F		C	2233	60	1.2	FT
846 CULG	15	2258	2305 IMP.1 NO : BIGB	2333U	N19	E01	.278	17266	16.0	35D	?N		C	2305	260	2.7	F
847 CULG	15	2321	2346	2352	N11	E80	.984	17279	22.0	31	-F		C	2346	30		
GRP89848	15	2337>9	2345 2359	0000	S12	W53	.816	17255	12.0	23	-N						
CULG	15	2337	2345	2359	S10	W58	.859	17255	11.6	22	-F		C	2345	80	1.6	T
PALE	15	2352	2359	0001D	S14	W48	.771	17255	12.4	9D	1B	3	C		315		
849 CULG	16	0000	0002	0014	S10	E52	.802	17276	19.9	14	-F		C	0002	40	.7	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
850 YUNN	16	0010		0040	S12	W52	.806	17255	12.1	30	-N		P	0025	48	.8	E
GRP89851	16	0045+8	0055+5	0145	S14	W53	.820	17255	12.1	60	1N				170	3.0	HIKW
CULG	16	0018	0100	0145	S13	W53	.818	17255	12.0	87	1N		C	0100	140	2.4	FKH
YUNN	16	0045	0056	0120D	S14	W53	.820	17255	12.1	35D	1B		P		209	3.9	EFIK
MANI	16	0052	0055	0106D	S16	W53	.825	17255	12.1	14D	1N	2	P		150	2.7	
LEAR	16	0053	0057	0059D	S15	W53	.823	17255	12.1	6D	1B	3	C		168		D
852 YUNN	16	0256	0302	0305	N17	W01	.247	17266	16.0	9	-N		C		64	.7	
GRP89853	16	0257+3	0304+1	0332	S08	W58	.856	17255	11.8	35	1N				160	3.1	K
CULG	16	0257	0304	0334D	S09	W59	.866	17255	11.7	37D	1B		C	0304	160	3.0	F
YUNN	16	0300	0305	0330	S08	W57	.847	17255	11.9	30	1N		C		161	3.2	EK
854 CULG	16	0308	0316	0325	S15	E33	.604	17280	18.6	17	-F		C	0316	60	.8	
GRP89855	16	0458	0507+3 0535	0611	S11	W60	.877	17255	11.7	73	1N						K
LEAR	16	0458	0507	0539D	S12	W63	.901	17255	11.5	41D	1B	3	C		270		
MANI	16	0509E	0510	0511D	S11	W58	.860	17255	11.9	2D	1F	1	V		120	2.2	
YUNN	16	0529	0535	0611	S11	W60	.877	17255	11.7	42	1B		C		193	4.1	EFKT
GRP89856	16	0720	0726 0735	0738	N17	W05	.260	17266	15.9	18	-N						EK
YUNN	16	0720	0726	0735	N17	W05	.260	17266	15.9	15	-N		C		48	.5	EK
CATA	16	0730E	0735	0740	N17	W06	.266	17266	15.9	10D	-F	2	P	0735	56	.6	
GRP89857	16	0857+2	0904+3	0945	N17	W03	.251	17266	16.1	48	2B				650	6.7	EK
YUNN	16	0857	0907	0950D	N19	W04	.288	17266	16.1	53D	2B		P		804	8.7	EK
LEAR	16	0859	0904	0907D	N16	W06	.250	17266	15.9	8D	2B	3	C		863		
ATHN	16	0903E	0905	0940	N17	W03	.251	17266	16.2	37D	1B	3	V	0905	207	2.2	
CATA	16	0910E	0910	0940D	N18	W03	.268	17266	16.2	30D	2F	2	P	0910	506	5.4	
GRP89858	16	1008	1009	1032	S10	W71	.950	17255	11.1	24	-B						
ATHN	16	1008	1009	1032	S12	W70	.946	17255	11.2	24	-B	3	V	1009	48	1.4	
CATA	16	1015E	1020	1020D	S09	W72	.955	17255	11.0	5D	1F	2	P	1020	87		
	16	1100	1110	NO FLARE PATROL													
859 RAMY	16	1217	1217	1233	S17	W59	.878	17255	12.1	16	-N	3	C		14		
	16	1245	1403	NO FLARE PATROL													
860 RAMY	16	1330	1334	1417	S12	W63	.901	17255	11.8	47	-N	3	C		85		
861 RAMY	16	1347	1356	1414	N16	W08	.266	17266	16.0	27	-F	3	C		44		
862 RAMY	16	1352	1354	1402	N15	E76	.969	17281	22.3	10	-N	3	C				
GRP89863	16	1428+2	1429	1454	S13	W67	.929	17255	11.6	26	-N						E
RAMY	16	1428	1429	1430D	S14	W66	.924	17255	11.7	2D	-B	3	C		112		
HUAN	16	1430		1454	S12	W68	.934	17255	11.5	24	-F	1	C				E
	16	1515	1554	NO FLARE PATROL													
864 RAMY	16	1517	1520	1524	S11	W72	.956	17255	11.2	7	-F	3	C				
	16	1607	1616	NO FLARE PATROL													
	16	1627	1808	NO FLARE PATROL													
865 RAMY	16	1642	1648	1654	N16	E34	.587	17268	19.2	12	-F	3	C		26		
GRP89866	16	1735	1742	1752	S15	W62	.898	17255	12.1	17	1N						D
RAMY	16	1735	1742	1752	S18	W60	.888	17255	12.2	17	1N	3	C		218		D
RAMY	16	1735	1742	1743D	S13	W65	.916	17255	11.9	8D	1N	3	C		218		D
	16	1815	1939	NO FLARE PATROL													
GRP89867	16	2017+3	2027	2051	S15	W67	.931	17255	11.8	34	-N						
CULG	16	2017	2027	2104	S14	W68	.936	17255	11.7	47	1N		C	2027	200	5.0	F
HUAN	16	2020		2038	S17	W66	.927	17255	11.9	18	-F	1	C				E

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GRP89868	16	2019+4	2033	2045	N16	E30	.535	17268	19.1	26	-N					
CULG	16	2019	2033	2049	N15	E30	.530	17268	19.1	30	1N	C	2033	210	2.5	F
HUAN	16	2023		2040	N17	E31	.554	17268	19.2	17	-F	1 C	2033	50	.6	E
869 CULG	16	2104	2109U	2152	N13	E70	.939	17281	22.1	48	-F	C	2109	50		
	16	2109	2116	NO FLARE PATROL												
870 CULG	16	2117	2130	2145	S12	W70	.946	17255	11.6	28	-F	C	2130	50		FT
GRP89871	16	2140+5	2157+1	2219	N16	E29	.522	17268	19.1	39	-F					
CULG	16	2140	2158	2219	N16	E30	.535	17268	19.2	39	-N	C	2158	160	1.9	
PALE	16	2145	2157	2218	N16	E29	.522	17268	19.1	33	-F	3 C		58		
GRP89872	16	2144+5	2148+2	2159	S11	W70	.945	17255	11.7	15	-N			60		E
CULG	16	2144	2148	2205	S11	W69	.658	17255	11.7	21	1N	C	2148	90		FT
PALE	16	2149	2150	2153	S11	W71	.951	17255	11.6	4	-F	3 C		40		
873 CULG	16	2150	2213	2257	N10	E70	.939	17281	22.2	67	?N	* C	2213	100		
			IMP.1	NO : PALE												
874 CULG	16	2227	2230	2239	S10	W70	.945	17255	11.7	12	-F	C	2230	40		
GRP89875	16	2303+0	2304 2311	2319D	N16	E29	.522	17268	19.1	16	-F					
PALE	16	2303	2304	2319	N16	E28	.509	17268	19.1	16	-F	2 C		27		
CULG	16	2303	2311	2351U	N16	E30	.535	17268	19.2	48D	-N	C	2311	130	1.6	
876 CULG	16	2306	2309	2316	S06	W62	.887	17255	12.3	10	-F	C	2309	60	1.3	G
GRP89877	16	2355+2	0005+9	0129	N18	W11	.320	17266	16.2	94	1B			360	3.8	U
MANI	17	0002E	0005	0012D	N18	W12	.331	17266	16.1	100	1B	* V		250	2.7	F
YUNN	17	0010	0014	0150	N18	W10	.313	17266	16.3	100	2B	* C		514	5.6	
PALE	17	0012	0014	0055	N17	W10	.299	17266	16.3	43	-N	* C		162		D
CULG	16	2355	2409	0129	N22	W12	.383	17266	16.1	94	1B	* C	2409	440	4.8	U
LEAR	16	2357	2408	0011D	N17	W10	.298	17266	16.2	14D	1B	* C		395		
GRP89878	16	2357>9	0005+2 2414	0033	N16	E28	.509	17268	19.1	36	-N					KL
LEAR	17	0004	0005	0009D	N17	E28	.515	17268	19.1	5D	-B	3 C		74		D
YUNN	17	0010	0014	0020	N15	E29	.517	17268	19.2	10	-N	C		96	1.2	EK
CULG	16	2357	2407	0046	N16	E28	.509	17268	19.1	49	-N	C	2407	160	1.9	KL
GRP89879	17	0012>9	0022 0046	0055	S11	W68	.934	17255	11.9	43	-N					EK
YUNN	17	0012	0022	0050	S13	W66	.923	17255	12.1	38	1N	C		95		EK
CULG	17	0038	0046	0059	S10	W70	.945	17255	11.8	21	-F	C	0046	60		T
880 CULG	17	0037	0047	0052	S15	E61	.890	17278	21.6	15	-F	C	0047	30	.6	HG
GRP89881	17	0102>9	0120+2	0135	S07	W75	.968	17255	11.4	33	-F			45		
YUNN	17	0102	0122	0140	S08	W74	.964	17255	11.5	38	-N	C		48		
CULG	17	0117	0120	0130	S06	W76	.972	17255	11.4	13	-F	C	0120	40		T
882 CULG	17	0134	0138	0146	N11	E69	.933	17281	22.2	12	-N	C	0138	60		
883 CULG	17	0156	0159	0205	S06	W76	.972	17255	11.4	9	-F	C	0159	40		T
884 CULG	17	0253	0259	0308	S06	W76	.972	17255	11.4	15	-F	C	0259	40		T
885 YUNN	17	0352	0355	0420	N18	W12	.331	17266	16.3	28	-N	C		161	1.8	
886 YUNN	17	0352	0408	0425	S12	W73	.961	17255	11.7	33	?N	C		80		
			IMP.1	NO : CULG												
887 YUNN	17	0452	0459	0505	S12	W69	.625	17255	12.0	13	-N	C		32		
888 CULG	17	0454	0508	0537	N11	E67	.920	17281	22.2	43	-F	C	0508	70		

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GRP89889	17	0514+1	0518+2	0530	N18	W16	.374	17266	16.0	16	-F				140	1.5	
CULG	17	0514	0518	0530	N18	W17	.385	17266	15.9	16	-N		C	0518	120	1.3	
YUNN	17	0515	0520	0530	N19	W15	.374	17266	16.1	15	-F		C		161	1.8	
890 CULG	17	0534	0537	0546	S14	W68	.936	17255	12.1	12	-F		C	0537	40		T
GRP89891	17	0536+7	0548+3 0630	0650	N18	E27	.509	17268	19.3	74	-N				160	1.9	K
CULG	17	0536	0548	0747	N18	E28	.522	17268	19.3	131	1N		C	0548	280	3.2	K
LEAR	17	0543	0551	0553D	N17	E27	.502	17268	19.3	10D	-B	3	C		128		D
MANI	17	0550E	0550U	0606	N18	E26	.496	17268	19.2	16D	-F	2	P		160	1.9	F
YUNN	17	0615	0630	0650	N18	E27	.509	17268	19.3	35	1B		C		306	3.7	EFK
GRP89892	17	0607+3	0611+1	0635	N17	W16	.363	17266	16.1	28	-N						
CULG	17	0607	0611	0618U	N18	W18	.397	17266	15.9	11D	-N		C	0611	60	.7	
YUNN	17	0610	0612	0635	N17	W15	.351	17266	16.1	25	-N		C		161	1.8	
GRP89893	17	0646+3	0649+0	0659	S11	W73	.961	17255	11.8	13	-N				30		
CULG	17	0646	0649	0659	S14	W68	.936	17255	12.2	13	1N		C	0649	40		T
LEAR	17	0649	0649	0654D	S11	W73	.961	17255	11.8	5D	-B	3	C		35		
MANI	17	0650E	0650U	0658D	S11	W74	.965	17255	11.7	8D	-F	1	V		20	.5	
894 CULG	17	0706	0714	0726	S23	E41	.737	17273	20.4	20	-F		C	0714	50	.7	
GRP89895	17	0751+4	0756+9 0818	0909	N18	W15	.363	17266	16.2	78	1N						F
CULG	17	0751	0756	0824D	N18	W14	.352	17266	16.3	33D	-B		C	0756	160	1.8	F
YUNN	17	0752	0803	0900	N20	W15	.386	17266	16.2	68	2B		C		804	9.1	
LEAR	17	0753	0818	0819D	N19	W14	.364	17266	16.3	26D	1B	3	C		217		D
ATHN	17	0755	0757	0910	N17	W16	.363	17266	16.1	75	1B	3	V	0757	286	3.2	
MANI	17	0758E	0800	0815D	N18	W19	.409	17266	15.9	17D	1F	1	V		220	2.5	F
CATA	17	0800E	0805	0830D	N16	W15	.341	17266	16.2	30D	-F	2	P	0805	84	.9	
KANZ	17	0841E	0841	0911	N17	W15	.351	17266	16.2	30D	-N	1					B
WEND	17	0846E		0908	N18	W15	.363	17266	16.2	22D	-N		C	0847	81	.9	
896 CATA	17	0800E	0805	0830D	N09	W14	.264	17267	16.3	30D	?F	2	P	0805	309	3.3	
			IMP.1 NO : CULG YUNN LEAR														
GRP89897	17	0907+3	0920+0	0954	N17	E24	.463	17268	19.2	47	1N						E
KANZ	17	0907	0920	0939D	N17	E23	.450	17268	19.1	32D	1N	2					
WEND	17	0908	0920	0954	N18	E24	.471	17268	19.2	46	1N		C	0920	219	2.6	E
YUNN	17	0910	0915	0915D	N16	E24	.456	17268	19.2	5D	2N		P		482	5.6	
898 LEAR	17	0918	0924	0926D	N16	W81	.987		11.3	8D	-B	3	C		79		
GRP89899	17	1011	1019	1059	N17	E21	.425	17268	19.0	48	-N						E
WEND	17	1011	1019	1108	N18	E20	.421	17268	18.9	57	1N		C	1019	188	2.2	E
KANZ	17	1017E		1049	N16	E22	.430	17268	19.1	32D	-N	2					
900 KANZ	17	1109	1109	1117	S17	W72	.959	17255	12.1	8	-N	2					
GRP89901	17	1129+5	1133+9	1150	N16	E21	.416	17268	19.1	21	-N				90	1.0	E
KANZ	17	1129	1133	1150	N16	E21	.416	17268	19.1	21	-N	2					
WEND	17	1134	1138	1148	N18	E21	.433	17268	19.1	14	-N		C	1138	113	1.3	E
RAMY	17	1134	1142	1159	N16	E21	.416	17268	19.1	25	-N	3	C		68		
902 RAMY	17	1207	1208	1215	S17	W69	.944	17255	12.3	8	-F	3	C		28		
GRP89903	17	1236+2	1259	1320	N17	E21	.425	17268	19.1	44	-F						E
KANZ	17	1236		1256D	N17	E22	.438	17268	19.2	20D	-F	2					
WEND	17	1238	1259	1320	N17	E21	.425	17268	19.1	42	-F		C	1259	150	1.7	E
904 WEND	17	1302	1308	1323	S11	W86	.998	17255	11.1	21	-N		C	1308	31		
GRP89905	17	1337	1339	1402	S10	W78	.980	17255	11.7	25	-B				60		
WEND	17	1337		1402	S11	W80	.987	17255	11.6	25	1N		C	1344	81		
ATHN	17	1338E	1339	1400D	S10	W77	.977	17255	11.8	22D	-B	3	V	1339	48	2.0	
	17	1415	1745	NO FLARE PATROL													
906 RAMY	17	1546	1547	1555	S10	W87	.999	17255	11.1	9	-F	3	C				

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
	17	1751	1800	NO FLARE PATROL												
GRP89907	17	1753+9	1803+1	1815	N17	E17	.375	17268	19.0	22	-N			40	.4	D
RAMY	17	1753	1803	1824	N17	E17	.375	17268	19.0	31	-B	3 C		100		D
PALE	17	1801	1803	1815	N17	E18	.387	17268	19.1	14	-F	2 C		35		
HUAN	17	1802	1804	1810	N16	E17	.365	17268	19.0	8	-F	1 C	1804	25	.3	D
	17	1811	1816	NO FLARE PATROL												
	17	1822	2000	NO FLARE PATROL												
GRP89908	17	1947>9	1951 2003	2020	S15	W79	.985	17255	11.9	33	-F					
RAMY	17	1947	1951	2023	S17	W74	.968	17255	12.3	36	-N	3 C				
CULG	17	2000	2003	2006	S13	W90	1.000	17255	11.1	6	-F	C	2003	20		
CULG	17	2010	2012	2016	S15	W79	.985	17255	11.9	6	-F	C	2012	20		
GRP89909	17	2022+1	2027 2035	2109	N09	E47	.733	17279	21.4	47	-F					
CULG	17	2022	2035	2109	N09	E48	.745	17279	21.4	47	-N	C	2035	80	1.2	
RAMY	17	2023	2027	2056D	N10	E47	.734	17279	21.4	33D	-F	3 C		34		
910 CULG	17	2117	2122	2131	S15	W79	.985	17255	12.0	14	-N	C	2122	30		
911 CULG	17	2150	2153	2155D	N10	E50	.768	17279	21.7	5D	-F	C	2153	30	.5	
	17	2155	2202	NO FLARE PATROL												
912 CULG	17	2202	2208	2224	N11	E65	.906	17281	22.8	22	-F	C	2208	40	1.0	
913 CULG	17	2208	2214	2223	S15	W90	1.000	17255	11.2	15	-F	C	2214	40		
GRP89914	17	2230+8	2238+3	2257	N13	E57	.841	17281	22.2	27	-F					
CULG	17	2230	2241	2315	N13	E55	.823	17281	22.1	45	1N	C	2241	160	2.7	
PALE	17	2236	2238	2257	N15	E57	.843	17281	22.2	21	-F	2 C		60		
MANI	17	2238	2240	2247	N13	E57	.841	17281	22.2	9	-F	1 V		100	1.8	
915 CULG	17	2354	2402	0040	N18	E12	.331	17268	18.9	46	-N	C	2402	100	1.1	
916 LEAR	17	2357	2408	0011D	N17	W10	.299	17266	17.2	14D	?B	3 C		395		
			IMP.1 NO : CULG MITK VORO													
GRP89917	18	0013+4	0019+1	0046	N18	W17	.387	17266	16.7	33	1F			200	2.2	FHLU
CULG	18	0013	0020	0051	N18	W18	.398	17266	16.7	38	1N	C	0020	210	2.3	L
MITK	18	0017	0019	0040	N18	W17	.387	17266	16.7	23	1F	C		190		FHU
918 CULG	18	0021	0024	0029	S12	W90	1.000	17255	11.3	8	-F	C	0024	30		
919 CULG	18	0042	0048	0057	S16	W70	.949	17255	12.8	15	-F	C	0048	40		
GRP89920	18	0113>9	0131+1	0151	N09	E45	.710	17279	21.4	38	-F			90	1.3	EH
CULG	18	0113	0131	0200	N09	E45	.710	17279	21.4	47	-F	C	0131	120	1.8	
VORO	18	0125	0132	0141	N09	E46	.722	17279	21.5	16	-F	C	0132	72	1.0	EH
GRP89921	18	0146+2	0149+1	0153D	N23	W26	.537	17266	16.1	7	-F			70	.8	D
CULG	18	0146	0150	0228	N26	W27	.573	17266	16.0	42	-N	C	0150	80	1.0	
VORO	18	0148	0149	0153	N20	W26	.512	17266	16.1	5	-F	C	0149	68	.8	D
GRP89922	18	0205+9	0217+6	0245	N16	E12	.308	17268	19.0	40	-N			100	1.0	EG
CULG	18	0205	0218	0308	N18	E12	.333	17268	19.0	63	-N	C	0218	160	1.6	F
LEAR	18	0210	0219	0222D	N16	E12	.308	17268	19.0	12D	-B	3 C		80		
VORO	18	0211	0223	0240	N15	E10	.274	17268	18.8	29	-B	C	0223	134	1.4	EG
MITK	18	0211	0221	0249	N16	E13	.319	17268	19.1	38	-F	C				E
PALE	18	0214	0217	0225	N16	E13	.319	17268	19.1	11	-F	2 C		25		
GRP89923	18	0210+4	0216+1	0225	S14	W86	.998	17255	11.6	15	-N			45		D
CULG	18	0210	0216	0228	S14	W83	.994	17255	11.9	18	-N	C	0216	40		
VORO	18	0214	0217	0221	S15	W90	1.000	17255	11.3	7	-N	C	0217	45		D
924 CULG	18	0234	0238	0247	S13	E40	.677	17278	21.1	13	-F	C	0238	30	.4	
925 CULG	18	0258	0302	0318	S20	E25	.549	17273	20.0	20	-N	C	0302	80	1.1	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
	18	0326	0331	NO FLARE PATROL													
GRP89926	18	0446+2	0451+0 0457	0525	N12	E53	.802	17281	22.2	39	1B						V
CULG	18	0410	0457	0528	N12	E52	.792	17281	22.1	78	1B		C	0457	280	4.5	V
LEAR	18	0446	0451	0454D	N13	E53	.803	17281	22.2	8D	1B	3	C		339		D
MITK	18	0448	0451	0522	N14	E54	.814	17281	22.2	34	1B		C		290		F
YUNN	18	0506E	0506	0525	N12	E54	.812	17281	22.3	19D	1B		C		193	3.4	
927 CULG	18	0515	0519	0530	N18	E11	.323	17268	19.0	15	-F		C	0519	80	.8	
GRP89928	18	0527+2	0535+1	0557	N08	E43	.684	17279	21.5	30	-N				60	.8	M
YUNN	18	0527	0535	0550	N08	E45	.709	17279	21.6	23	-N		C		48		M
CULG	18	0529	0536	0603	N09	E42	.672	17279	21.4	34	-N		C	0536	80	1.1	
GRP89929	18	0610+4	0615+2 0644	0648D	N16	E12	.308	17268	19.2	38	-N				90	.9	E
CULG	18	0610	0615	0725	N18	E11	.323	17268	19.1	75	-N		C	0615	120	1.3	
YUNN	18	0614	0617	0625	N16	E12	.308	17268	19.2	11	-N		C		64	.7	
MITK	18	0615E	0000	0642D	N16	E12	.308	17268	19.2	27D	-N		C				
YUNN	18	0638	0644	0648	N17	E12	.320	17268	19.2	10	-N		C		96	1.1	E
930 ISTA	18	0615		0620	N16	W29	.523	17266	16.1	5	-F						D
GRP89931	18	0627+7	0638+4	0657	N20	W28	.536	17266	16.2	30	-F				25	.3	
CULG	18	0627	0642	0705	N20	W28	.536	17266	16.2	38	-F		C	0642	20	.2	
YUNN	18	0634	0638	0648	N21	W28	.544	17266	16.2	14	-N		C		32	.4	
932 CULG	18	0733	0738	0743	N19	W30	.554	17266	16.1	10	-F		C	0738	80	.9	
933 ISTA	18	0739		0745	N16	E11	.297	17268	19.1	6	-F						D
GRP89934	18	0954	0959+4	1022	N17	W28	.516	17266	16.3	28	-N				110	1.3	
LEAR	18	0954	1003	1005D	N17	W28	.516	17266	16.3	11D	-B	3	C		105		
CATA	18	0955E	1000	1000D	N17	W29	.529	17266	16.2	5D	1F	2	P	1000	253	3.1	
ATHN	18	0957E	0959	1022	N18	W26	.497	17266	16.5	25D	-B	2	V	0959	111	1.4	
935 RAMY	18	1124	1124	1213	N09	E40	.647	17279	21.5	49	-N	3	C		54		
GRP89936	18	1141+0	1145+1 1210	1221	N14	E49	.763	17281	22.2	40	1B				210	3.3	D
RAMY	18	1141	1146	1218	N14	E48	.752	17281	22.1	37	1B	3	C		248		D
ATHN	18	1141	1145	1221	N11	E49	.758	17281	22.2	40	1B	2	V	1145	175	2.7	
HTPR	18	1206	1210	1227	N15	E52	.796	17281	22.4	21	-N		C	1210	20	.3	
GRP89937	18	1306+0	1307+2	1315	N10	E38	.622	17279	21.4	9	-B				50	.6	
HTPR	18	1306	1309	1314	N11	E39	.637	17279	21.5	8	-B		C	1309	50	.7	
RAMY	18	1306	1307	1315	N09	E37	.607	17279	21.3	9	-B	3	C		54		
GRP89938	18	1319+6	1328+1	1332	N10	E38	.622	17279	21.4	13	-F				25	.3	
HTPR	18	1319	1328	1333	N11	E39	.637	17279	21.5	14	-F		C	1328	30	.4	
RAMY	18	1325	1329	1331	N09	E37	.607	17279	21.3	6	-N	3	C		20		
939 HTPR	18	1349	1407	1411	N13	E36	.603	17279	21.3	22	-F		C	1407	30	.4	
940 RAMY	18	1405	1411	1431	N15	E06	.239	17268	19.0	26	-F	3	C		35		
941 HTPR	18	1418	1420	1430	N14	E47	.741	17281	22.1	12	-B		C	1420	50	.7	E
GRP89942	18	1448+2	1451+0	1519	N16	E04	.243	17268	18.9	31	-B				100	1.0	E
RAMY	18	1448	1451	1523	N16	E05	.248	17268	19.0	35	-B	3	C		119		
HTPR	18	1450	1451	1515	N17	E04	.259	17268	18.9	25	-B		C	1451	80	.8	E
GRP89943	18	1553+0	1558+0	1609	N13	E46	.728	17281	22.1	16	-N						
BIGB	18	1553	1558	1609	N13	E46	.728	17281	22.1	16	-N	3	C	1558	100	1.5	
RAMY	18	1553	1558	1609	N13	E46	.728	17281	22.1	16	1N	3	C		280		
	18	1625	2037	NO FLARE PATROL													

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP89944	18	1652+1	1653+0	1709	N10	E35	.581	17279	21.3	17	-B			80	1.0	D
RAMY	18	1652	1653	1702	N10	E35	.581	17279	21.3	10	-B	3 C		83		
HOLL	18	1653	1653	1716	N10	E35	.581	17279	21.3	23	-B	4 C		90		D
945 RAMY	18	1726	1727	1738	N16	E04	.243	17268	19.0	12	-F	3 C		50		
946 HOLL	18	1804	1816	1825	N11	E36	.598	17279	21.5	21	-F	3 C		74		
947 HOLL	18	1831	1832	1850	N16	E04	.243	17268	19.1	19	-N	3 C		49		
948 RAMY	18	1836	1836	1850	N10	E36	.595	17279	21.5	14	-F	3 C		19		
949 CULG	18	2219	2221	2229	N12	E41	.665	17281	22.0	10	-F	C	2221	10	.1	
	18	2238	2245	NO FLARE PATROL												
GRP89950	19	0027+3	0035+6	0105	N16	00	.235	17268	19.0	38	-N			190	1.9	EK
CULG	19	0027	0037	0128	N18	E00	.269	17268	19.0	61	1N	C	0037	200	2.0	
VORO	19	0030	0041	0058	N15	W02	.221	17268	18.9	28	-F	C	0041	179	1.9	EK
MITK	19	0030	0035	0105	N16	E01	.236	17268	19.1	35	-N	C				E
951 CULG	19	0057	0124	0154U	N12	E41	.666	17281	22.1	57D	-F	C	0124	100	1.4	FT
GRP89952	19	0114	0126+2	0214	N18	W39	.660	17266	16.1	60	-N					F
CULG	19	0114	0128	0214	N19	W38	.652	17266	16.2	60	-N	C	0128	80	1.0	
CULG	19	0114	0126	0154	N18	W40	.672	17266	16.1	40	-F	C	0126	110	1.5	F
GRP89953	19	0144+3	0148+1	0219	N08	E31	.520	17279	21.4	35	1N			270	3.2	DG
LEAR	19	0144	0149	0223	N08	E31	.520	17279	21.4	39	2B	3 C		504		D
CULG	19	0144	0148	0228	N09	E30	.508	17279	21.3	44	1N	C	0148	280	3.4	
VORO	19	0146	0149	0211	N08	E30	.506	17279	21.3	25	1N	C	0149	233	2.8	EG
PALE	19	0146	0148	0211	N09	E31	.523	17279	21.4	25	1N	2 C		192		D
MITK	19	0147	0148	0220	N09	E32	.537	17279	21.5	33	1N	C		310		
YUNN	19	0204E	0204	0221	N07	E32	.533	17279	21.5	17D	1N	C		193	2.4	
GRP89954	19	0207+4	0211+2	0225	N12	E41	.666	17281	22.2	18	-F			45	.6	
CULG	19	0207	0213	0222	N12	E41	.666	17281	22.2	15	-F	C	0213	60	.8	T
LEAR	19	0211	0211	0228	N13	E41	.668	17281	22.2	17	-F	3 C		27		
955 CULG	19	0227	0234	0259	N12	E40	.653	17281	22.1	32	-N	C	0234	130	1.8	T
956 CULG	19	0300	0310	0339	N18	W33	.587	17266	16.7	39	-F	C	0310	160	1.9	F
GRP89957	19	0322>9	0335+5	0424	N12	E41	.666	17281	22.2	62	1N					
CULG	19	0322	0336	0424	N12	E41	.666	17281	22.2	62	1N	C	0336	290	4.1	TF
LEAR	19	0322	0335	0404	N14	E41	.671	17281	22.2	42	1B	3 C		183		
MITK	19	0331	0340	0430	N13	E41	.668	17281	22.2	59	-B	C				E
YUNN	19	0335	0338	0338D	N12	E42	.678	17281	22.3	3D	2N	P		482	6.7	
	19	0518	0535	NO FLARE PATROL												
	19	0538	0540	NO FLARE PATROL												
	19	0552	0620	NO FLARE PATROL												
958 CULG	19	0628	0641	0754	N18	W40	.672	17266	16.3	86	-N	C	0641	100	1.4	F
GRP89959	19	0714>9	0726+1	0750	N16	W07	.263	17268	18.8	36	-F			35	.4	F
CULG	19	0714	0727	0755	N18	W08	.300	17268	18.7	41	-F	C	0727	50	.5	F
LEAR	19	0726	0726	0745	N15	W07	.248	17268	18.8	19	-F	3 C		22		
960 LEAR	19	0735E	0735U	0743	N13	E38	.630	17281	22.2	8D	-F	3 C		20		
GRP89961	19	0743+4	0748+1 0800	0819	N12	E40	.653	17281	22.3	36	-N			50	.7	F
CULG	19	0743	0748	0811	N12	E40	.653	17281	22.3	28	-F	C	0748	40	.5	TF
LEAR	19	0747	0749	0819	N11	E41	.663	17281	22.4	32	-N	3 C		66		
KANZ	19	0749E	0749	0800	N14	E36	.607	17281	22.0	11D	-F	1				
KANZ	19	0757	0800	0820	N14	E41	.671	17281	22.4	23	-N	1				
GRP89962	19	0845+1	0852+1	0911	N16	W03	.241	17268	19.1	26	-B					D
LEAR	19	0845	0852	0909	N16	W03	.241	17268	19.1	24	-B	3 C		180		D
KANZ	19	0846	0853	0913D	N16	W04	.245	17268	19.1	27D	-B	2				

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP89963	19	0949+2	0953+1 1016	1020	N13	E36	.604	17281	22.1	31	1B				250	3.1	EU
YUNN	19	0937	0953	0958D	N12	E36	.601	17281	22.1	21D	1B		P		321	4.2	
ISTA	19	0949		1014	N13	E36	.604	17281	22.1	25	-B						U
HTPR	19	0951	0954	1025	N13	E36	.604	17281	22.1	34	1N		C	0954	180	2.2	E
CATA	19	1000E	1000	1005D	N13	E35	.591	17281	22.0	5D	1F	2	P	1000	169	2.2	T
HTPR	19	1010	1016	1022	N12	E45	.714	17281	22.8	12	-F		C	1016	50	.7	E
964 HTPR	19	0953	1002	1025	N18	W05	.282	17268	19.0	32	-F		C	1002	20	.2	E
965 HTPR	19	1047	1053	1112	N14	E39	.646	17281	22.4	25	-N		C	1053	20	.3	
966 ABST	19	1138	1141	1150	N16	W45	.745	17266	16.1	12	-F		C	1141	131	1.8	E
967 ABST	19	1139E	1140	1143	N14	E34	.581	17281	22.0	4D	-F		P	1140	87	1.1	D
968 ABST	19	1139	1146	1152	N17	W06	.271	17268	19.0	13	-F		P	1146	174	1.9	EJ
969 ABST	19	1147	1148	1152	N11	E44	.701	17281	22.8	5	-F		C	1148	87	1.2	D
970 RAMY	19	1221	1251	1308	N09	E43	.685	17281	22.7	47	-F	3	C		30		
971 RAMY	19	1224	1232	1244	N18	W41	.683	17266	16.4	20	-F	3	C		51		
GRP89972	19	1236+1	1238+1	1340	N17	W06	.271	17268	19.1	64	-B				180	1.9	K
RAMY	19	1236	1238	1240D	N16	W07	.263	17268	19.0	4D	-B	3	C		175		D
HTPR	19	1237	1239	1340	N18	W06	.287	17268	19.1	63	-B		C	1239	180	1.8	EK
	19	1344	1408	NO FLARE PATROL													
	19	1413	1422	NO FLARE PATROL													
	19	1457	1534	NO FLARE PATROL													
	19	1549	2004	NO FLARE PATROL													
973 RAMY	19	1606	1630	1648	S15	W17	.410	17280	18.4	42	-F	3	C		40		
974 HOLL	19	1608E	1613	1624	N11	E41	.663	17281	22.7	16D	-F	3	C		46		
975 HOLL	19	1623	1637	1654	N12	E39	.640	17281	22.6	31	-F	3	C		93		
976 HOLL	19	1858	1900	1904	N13	E30	.523	17281	22.0	6	-F	3	C		44		
	19	2108	2113	NO FLARE PATROL													
GRP89977	19	2120>9	2143+4	2210D	N13	E28	.495	17281	22.0	50	1N				200	2.3	J
CULG	19	2032	2143	2345U	N12	E30	.519	17281	22.1	193D	1N		C	2143	220	2.6	JFT
HOLL	19	2120	2147	2149D	N14	E28	.500	17281	22.0	29D	1B	*	C		202		
PALE	19	2135	2146	2210	N13	E27	.481	17281	21.9	35	-N	*	C		75		D
GRP89978	19	2124+1	2125+4	2150	N17	W14	.343	17268	18.8	26	-F						
CULG	19	2124	2129	2159	N18	W14	.355	17268	18.8	35	-N		C	2129	60	.6	
HOLL	19	2125	2125	2141	N16	W14	.332	17268	18.8	16	-F	3	C		21		
979 CULG	20	0018	0019	0034	N19	W53	.814	17266	16.0	16	-F		C	0019	40	.7	
GRP89980	20	0126	0132+0	0155	N12	E26	.462	17281	22.0	29	-N				70	.8	
CULG	20	0126	0132	0158	N13	E26	.467	17281	22.0	32	-N		C	0132	80	.9	
YUNN	20	0130E	0132	0151	N12	E27	.477	17281	22.1	21D	-N		P		64	.8	
981 YUNN	20	0235	0235	0250	N09	E37	.607	17281	22.9	15	-N		C		32	.4	
GRP89982	20	0438+1	0438+2	0502	N13	E26	.467	17281	22.1	24	1N				310	3.5	FHUV
CULG	20	0438E	0438	0509	N14	E24	.445	17281	22.0	31D	1B		C	0438	400	4.5	V
MITK	20	0439	0440	0502	N13	E26	.467	17281	22.1	23	1N		C		240		FHU
YUNN	20	0442E	0442	0450	N11	E27	.472	17281	22.2	8D	1B		P		321	3.8	
LEAR	20	0445E	0445U	0448D	N13	E26	.467	17281	22.1	3D	1N	3	C		277		
GRP89983	20	0525+4	0529+1	0545	N13	E25	.453	17281	22.1	20	-N				100	1.1	EH
YUNN	20	0525	0530	0540	N12	E26	.462	17281	22.2	15	-N		C		129	1.5	
CULG	20	0528	0530	0545	N15	E24	.452	17281	22.0	17	-N		C	0530	80	.9	
MITK	20	0529	0529	0545D	N13	E25	.453	17281	22.1	16D	-F		C				EH

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP89984	20	0632	0636	0647	N12	E28	.491	17281	22.4	15	-N			70	.8	DJ
ABST	20	0632	0636	0650	N12	E27	.477	17281	22.3	18	-N	C	0636	87	1.0	DJ
YUNN	20	0638E	0638	0644	N13	E29	.509	17281	22.5	6D	-N	C		64	.8	
985 ABST	20	0639	0641	0644	S16	E64	.912	17284	25.1	5	-F	C	0641	87		D
986 ABST	20	0712	0715	0722	N16	W17	.369	17268	19.0	10	-F	C	0715	131	1.4	EJ
987 YUNN	20	0725	0725	0743	N16	W19	.394	17268	18.9	18	-N	C		80	.9	
GRP89988	20	0803+3	0807+5	0940	N13	E26	.467	17281	22.3	97	1B					EK
HTPR	20	0803	0807	0945	N12	E23	.419	17281	22.1	102	1B	C	0807	210	2.1	E
LEAR	20	0804	0812	0815D	N13	E27	.482	17281	22.4	11D	1B 3	C		382		
CULG	20	0805	0808	0815D	N14	E25	.459	17281	22.2	10D	1N	P	0808	200	2.3	
YUNN	20	0805	0809	0935	N13	E26	.467	17281	22.3	90	2B	C		562	6.6	EFK
BUCA	20	0806	0808	0850D	N13	E26	.467	17281	22.3	44D	1N	C	0808	430	5.0	
CATA	20	0825E	0825	0830D	N13	E26	.467	17281	22.3	5D	1F 2	P	0825	253	3.0	
GRP89989	20	1128+4	1132+2	1142	S15	E60	.881	17284	25.0	14	-F					
WEND	20	1128	1134	1143	S16	E60	.883	17284	25.0	15	-F	C	1134	38	.8	
KANZ	20	1132	1132	1140	S15	E60	.881	17284	25.0	8	-F 3					
990 HTPR	20	1232	1234	1242	S08	E01	.539	17282	20.6	10	-F	C	1234	20	.2	
GRP89991	20	1241+4	1243+7	1301	N08	E32	.535	17281	22.9	20	-F			60	.7	E
RAMY	20	1241E	1243U	1301	N08	E32	.535	17281	22.9	20D	-F 3	C		85		
HTPR	20	1242	1247	1300	N07	E32	.533	17281	22.9	18	-N	C	1247	60	.7	E
WEND	20	1244	1246	1300	N08	E33	.550	17281	23.0	16	-F	C	1246	34	.4	
CATA	20	1245	1250	1320	N08	E32	.535	17281	22.9	35	-F 2	C	1250	56	.7	
GRP89992	20	1523+4	1526+1	1603	N15	W23	.438	17268	18.9	40	-N			70	.8	E
HTPR	20	1523		1532D	N16	W21	.420	17268	19.1	9D	-N	C	1527	70	.7	E
RAMY	20	1523	1526	1555	N15	W24	.452	17268	18.8	32	-F 3	C		61		
HOLL	20	1527	1527	1610	N15	W23	.438	17268	18.9	43	-N 3	C		72		
	20	1532	2012	NO FLARE PATROL												
GRP89993	20	1542+1	1545+1	1612	N13	E22	.411	17281	22.3	30	-F			50	.5	
RAMY	20	1542	1545	1602	N14	E22	.418	17281	22.3	20	-F 3	C		38		
HOLL	20	1543	1546	1621	N12	E23	.419	17281	22.4	38	-N 3	C		72		
GRP89994	20	1739+0	1739+1	1748	N13	E22	.411	17281	22.4	9	-N			25	.3	
HOLL	20	1739	1740	1749	N13	E22	.411	17281	22.4	10	-N 3	C		28		
RAMY	20	1739	1739	1747	N13	E22	.411	17281	22.4	8	-N 3	C		24		
995 RAMY	20	2012	2023	2037	N13	W05	.205	17274	20.5	25	-F 3	C		47		
996 CULG	20	2039	2046	2103	N14	E24	.445	17281	22.7	24	-F	C	2046	40	.4	F
GRP89997	20	2045+4	2048+1 2059	2139	N15	W27	.493	17268	18.8	54	-N			100	1.1	F
CULG	20	2045	2049	2131	N17	W26	.492	17268	18.9	46	-N	C	2049	130	1.5	F
RAMY	20	2046	2048	2107D	N15	W27	.493	17268	18.8	21D	-N 3	C		82		
HOLL	20	2049	2059	2147	N15	W28	.506	17268	18.8	58	-N 3	C		120		
998 CULG	20	2112	2119	2130	S14	W33	.595	17280	18.4	18	-N	C	2119	70	.9	
	20	2207	2219	NO FLARE PATROL												
999 CULG	20	2223	2225	2236	N18	W28	.525	17268	18.8	13	-N	C	2225	70	.8	
0 CULG	20	2245	2254	2339	N18	W28	.525	17268	18.8	54	-N	C	2254	160	1.8	K
1 CULG	20	2256	2324	2357	N12	E08	.217	17279	21.6	61	-F	C	2324	80	.8	
GRP90002	21	0059	0124 0138	0227	N10	E06	.171	17279	21.5	88	-N					
CULG	21	0059	0124	0229	N11	E06	.185	17279	21.5	90	-N	C	0124	110	1.1	
YUNN	21	0137E	0138	0152	N10	E07	.182	17279	21.6	15D	1N	P		321	3.4	
YUNN	21	0209	0214	0224	N10	E06	.171	17279	21.5	15	-N	P		64	.7	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
3 CULG	21	0154	0211	0325	N19	W28	.532	17268	19.0	91	-F		C	0211	120	1.4	
GRP90004	21	0213>9	0226+2	0243	S23	E52	.834	17284	25.0	30	-N						E
CULG	21	0213	0226	0255	S23	E52	.834	17284	25.0	42	1N		C	0226	120	2.0	
VORO	21	0226	0228	0231	S24	E52	.837	17284	25.0	5	-F		C	0228	49	.9	E
GRP90005	21	0301+1	0304+1	0317	N12	E16	.320	17281	22.3	16	-N				60	.6	D
YUNN	21	0301D	0305	0317	N12	E17	.334	17281	22.4	16D	-N		P		48	.5	
CULG	21	0301	0304	0319	N14	E16	.338	17281	22.3	18	-N		C	0304	80	.8	
VORO	21	0302	0305	0313	N11	E16	.312	17281	22.3	11	-N		C	0305	45	.5	D
GRP90006	21	0321+1	0322+5	0338	N13	E16	.329	17281	22.3	17	-N				60	.6	E
CULG	21	0321	0322	0338	N14	E16	.338	17281	22.3	17	-N		C	0322	80	.8	
YUNN	21	0322	0327	0345E	N13	E18	.356	17281	22.5	23D	-N		P		64	.7	
VORO	21	0322	0324	0330	N13	E16	.329	17281	22.3	8	-F		C	0324	54	.6	E
GRP90007	21	0344+4	0349+0	0355	N17	W29	.532	17268	19.0	11	-N				70	.8	D
CULG	21	0344	0349	0359	N19	W28	.532	17268	19.1	15	-N		C	0349	80	.9	
VORO	21	0348	0349	0351	N15	W30	.534	17268	18.9	3	-N		C	0349	63	.8	D
8 VORO	21	0353	0355	0359	N07	E02	.091	17279	21.3	6	-F		C	0355	22	.2	D
9 CULG	21	0429	0432	0445	N20	E70	.943	17286	26.4	16	-N		C	0432	60		
10 YUNN	21	0506E	0514	0541	N14	E68	.928	17288	26.3	35D	-N		P		48		
11 CULG	21	0523	0530	0534D	S06	E55	.824	17285	25.3	11D	?F		C	0530	140	2.4	FL
			IMP.1 NO : YUNN														
GRP90012	21	0603	0618 0625	0630	N15	E16	.348	17281	22.5	27	-F						
CULG	21	0603	0625	0630	N16	E16	.358	17281	22.5	27	-F		P	0625	60	.6	
YUNN	21	0616E	0618	0630	N14	E16	.338	17281	22.5	14D	-N		P		161	1.8	
GRP90013	21	0620+6	0634+4 0648	0651	N18	W30	.551	17268	19.0	31	-B						EK
LEAR	21	0620	0634	0636D	N18	W30	.551	17268	19.0	16D	-B	3	C		189		
YUNN	21	0626	0638	0644D	N17	W29	.532	17268	19.1	18D	1N		P		401	4.9	EKT
YUNN	21	0626	0648	0651	N18	W30	.551	17268	19.0	25	-N		P		161	2.0	EK
14 CULG	21	0627	0639	0650	N20	W60	.876	17266	16.8	23	?N		C	0639	220	2.6	F
			IMP.1 NO : YUNN														
15 YUNN	21	0646	0649	0703D	N14	E70	.940	17288	26.5	17D	-N		C		32		EK
16 CULG	21	0704	0709	0712	N10	W02	.141	17279	21.1	8	-F		P	0709	60	.6	
GRP90017	21	0742+3	0744+0 0751+6	0826	N13	E14	.302	17281	22.4	44	1N				230	2.4	EK
HTPR	21	0742	0755	0816	N13	E14	.302	17281	22.4	34	1N		C	0755	220	2.2	EK
CULG	21	0743	0751	0806	N12	E15	.306	17281	22.4	23	-N		C	0751	80	.8	
BUCA	21	0743	0744	0817	N13	E13	.290	17281	22.3	34	1N		C	0744	161	2.3	E
KANZ	21	0744	0757	0854	N12	E15	.306	17281	22.4	70	-B	3					
LEAR	21	0744	0744	0805D	N12	E14	.293	17281	22.4	21D	-B	3	C		153		
CATA	21	0745	0755	0825D	N13	E14	.302	17281	22.4	40D	1F	2	P	0755	253	2.7	
YUNN	21	0755E	0755	0845D	N13	E15	.315	17281	22.5	50D	1B		P		241	2.6	EFK
18 YUNN	21	0759	0807	0814	N13	E67	.921	17288	26.4	15	-N		C		32		
GRP90019	21	0920+1	0925+1	0936	N13	E14	.302	17281	22.4	16	-F						E
HTPR	21	0920	0926	0934	N13	E14	.302	17281	22.4	14	-F		C	0926	40	.4	E
KANZ	21	0921	0925	0937	N13	E15	.315	17281	22.5	16	-N	3					
GRP90020	21	0953+6	1002+0 1015	1117	N12	E15	.306	17281	22.5	84	-B						
KANZ	21	0953	1002	1032	N13	E13	.290	17281	22.4	39	-B	3					
KANZ	21	0957	1023	1117	N12	E17	.334	17281	22.7	80	-B	3					
HTPR	21	0959	1002	1100	N13	E15	.315	17281	22.5	61	-B		C	1002	180	1.8	
CATA	21	1010E	1015	1110	N13	E15	.315	17281	22.5	60D	1F	2	P	1015	281	3.0	
HTPR	21	1106		1137	N12	E18	.348	17281	22.8	31	-F		C	1108	60	.6	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp		Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
21 HTPR	21	1414	1416	1423	N13	E12	.277	17281	22.5	9	-B		C	1416	40	.4	E
	21	1502	1510	NO FLARE PATROL													
22 CULG	21	2059	2104	2145	N14	W19	.378	17274	20.4	46	-N		C	2104	140	1.5	
GRP90023	21	2059+1	2105+5	2116	N16	W37	.629	17268	19.1	17	-N				90	1.2	F
CULG	21	2059	2105	2139	N18	W38	.649	17268	19.0	40	-N	*	C	2105	100	1.3	F
BOUL	21	2100	2110	2116	N16	W35	.604	17268	19.2	16	-N	*	C		60		
BIGB	21	2100	2110	2116	N13	W37	.618	17268	19.1	16	-N	*	C	2110	120	1.5	
24 BOUL	21	2106	2111	2114	N10	W08	.194	17279	21.3	8	-F	2	C		40		
GRP90025	21	2215+1	2219 2228	2230D	N15	W40	.662	17268	18.9	15	-N						
CULG	21	2215	2228	2312	N18	W40	.673	17268	18.9	57	1N		C	2228	150	2.0	
BIGB	21	2216	2219	2230	N13	W40	.657	17268	18.9	14	-F	3	C	2219	100	1.3	
26 CULG	21	2259	2311	2336	N08	E12	.230	17281	22.9	37	-F		C	2311	40	.4	
GRP90027	22	0053+5	0100 0107+2	0137	N08	W10	.201	17279	21.3	44	-N				180	1.8	EGK
CULG	22	0053	0109	0156	N08	W10	.201	17279	21.3	63	1N		C	0109	220	2.2	
YUNN	22	0056	0100	0125	N08	W10	.201	17279	21.3	29	-N		C		161	1.7	EK
VORO	22	0058	0107	0137	N06	W10	.186	17279	21.3	39	-F		C	0107	143	1.5	EG
28 YUNN	22	0100	0106	0116	N16	W22	.435	17274	20.4	16	-N		C		80	.9	
29 CULG	22	0332	0337	0340	S18	E38	.675	17284	25.0	8	-F		C	0337	30	.4	
30 YUNN	22	0345	0415	0446	N11	E10	.231	17281	22.9	61	-N		C		161	1.7	
31 YUNN	22	0417	0418	0430	N18	W42	.697	17268	19.0	13	-N		C		64	.9	
32 YUNN	22	0425	0431	0437	N17	W24	.469	17274	20.4	12	-N		C		64	.8	
GRP90033	22	0443>9	0538 0602	0640D	N12	W02	.176	17281	22.0	117	1N						FJK
CULG	22	0443	0602	0735	N12	W02	.176	17281	22.0	172	1N		C	0602	460	4.6	FJ
YUNN	22	0530	0538	0640	N13	W02	.193	17281	22.1	70	2N		C	0542	643	6.7	EFKT
34 CULG	22	0444	0454	0523	N18	W43	.708	17268	19.0	39	-N		C	0454	90	1.3	
35 YUNN	22	0527	0531	0534	N18	W78	.978	17266	16.4	7	-N		C		48		
GRP90036	22	0528+9	0542+2 0553	0631	S18	E39	.686	17284	25.2	63	1B				320	4.4	FK
CULG	22	0528	0553	0732	S18	E38	.675	17284	25.1	124	2B	*	C	0553	430	6.0	F
LEAR	22	0533	0544	0549D	S17	E40	.692	17284	25.2	16D	1B	*	C		294		
YUNN	22	0537	0542	0557	S19	E40	.702	17284	25.2	20	1N	*	C	0548	241	3.6	EFK
ATHN	22	0600E	0604	0631	S20	E39	.696	17284	25.2	31D	-B	*	V	0604	127	1.8	
37 CULG	22	0556	0631	0805D	S20	W08	.397		21.6	129D	?F		C	0631	1100	12.1	SFI
			IMP.2	NO : YUNN	PURP												
GRP90038	22	0606	0624	0643	N17	W26	.494	17274	20.3	37	-N						
CULG	22	0606	0624	0650	N18	W27	.514	17274	20.2	44	-N		C	0624	120	1.3	T
YUNN	22	0625E	0625	0635	N16	W25	.474	17274	20.4	10D	-N		P		48	.6	
GRP90039	22	0722E		0745	N18	W77	.974	17266	16.5	23	-F						
HTPR	22	0722E		0740	N18	W77	.974	17266	16.5	18D	-F		C	0727	50		
YUNN	22	0736E	0736	0750	N18	W78	.978	17266	16.5	14D	-N		C		32		
40 YUNN	22	0822	0822	0825	N12	E05	.193	17281	22.7	3	-N		C		80	.8	
GRP90041	22	0825	0831	0842D	N16	W78	.978	17266	16.5	17	-N						
YUNN	22	0825	0831	0842	N16	W77	.974	17266	16.6	17	-N		C		48		
KANZ	22	0839E	0849	0907	N19	W83	.992	17266	16.1	28D	-F	2					
KANZ	22	0839E		0912	N14	W76	.970	17266	16.7	33D	-N	2					

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP90042	22	0842+8	0849+5	0921	N07	W14	.256	17279	21.3	39	-F						EH
HTPR	22	0842	0849	0916	N07	W15	.271	17279	21.2	34	-F		C	0849	40	.4	E
KANZ	22	0849	0854	0921	N06	W13	.234	17279	21.4	32	-N	3					H
CATA	22	0850	0850	0925	N07	W14	.256	17279	21.3	35	-F	2	P	0850	112	1.2	
GRP90043	22	0921>9	1002 1010	1013	N16	W78	.978	17266	16.5	52	-F						
KANZ	22	0921	1010	1020	N15	W79	.981	17266	16.5	59	-N	2					
HTPR	22	0949	1002	1006	N18	W78	.978	17266	16.6	17	-F		C	1002	20		
GRP90044	22	1110+6	1115+3	1138	N23	E61	.888	17291	27.0	28	-F				80	1.8	
CATA	22	1110	1115	1135	N21	E61	.885	17291	27.0	25	-F	2	C	1115	84	1.9	
KANZ	22	1116	1118	1140	N23	E61	.888	17291	27.0	24	-F	3					
WEND	22	1117E		1126D	N23	E59	.873	17291	26.9	9D	-F		C	1117	94	2.0	
45 KANZ	22	1118		1146D	N15	W77	.974	17266	16.7	28D	-F	3					
GRP90046	22	1137+3	1141	1215	N12	00	.173	17281	22.5	38	-N						E
HTPR	22	1137	1141	1215	N13	W02	.193	17281	22.3	38	-N		C	1141	40	.4	E
KANZ	22	1140		1146D	N11	E02	.160	17281	22.6	6D	-N	3					
47 CATA	22	1145	1200 IMP.1	1245D NO : HTPR	S05	E50	.771	17287	26.2	60D	?F	2	P	1200	169	2.7	
48 HTPR	22	1237	1240	1242	N10	W24	.425	17279	20.7	5	-F		C	1240	30	.3	
49 HTPR	22	1412	1416	1454	N13	E01	.191	17281	22.7	42	-F		C	1416	50	.5	E
50 HTPR	22	1501	1507	1516	N08	W19	.339	17279	21.2	15	-F		C	1507	10	.1	
GRP90051	22	1507	1516 1529	1537	N11	W04	.170	17281	22.3	30	-N						E
HTPR	22	1507	1516	1528	N12	W02	.176	17281	22.5	21	-F		C	1516	10	.1	
HTPR	22	1523	1529	1537	N11	W07	.197	17281	22.1	14	-N		C	1529	60	.6	E
GRP90052	22	1526+3	1529+1	1534	N09	W21	.375	17279	21.1	8	-N				60	.6	
HTPR	22	1526	1529	1532	N11	W21	.386	17279	21.1	6	-B		C	1529	70	.7	
RAMY	22	1529	1530	1535	N08	W22	.386	17279	21.0	6	-N	3	C		50		
GRP90053	22	1537+2	1614 1640+0	1653	N15	W50	.777	17268	18.9	76	-N						
HOLL	22	1537E	1640	1653	N15	W50	.777	17268	18.9	76D	-N	3	C		20		
BIGB	22	1537	1640	1653	N13	W50	.773	17268	18.9	76	-N	3	C	1640	70	1.1	
RAMY	22	1539	1614	1632	N15	W49	.766	17268	19.0	53	-F	3	C		86		
54 HOLL	22	1539E	1603	1610	N12	E47	.739	17288	26.2	31D	-F	3	C		28		
55 HOLL	22	1632	1638	1653	N09	W21	.375	17279	21.1	21	-N	3	C		23		
56 HOLL	22	1651	1651	1706	N11	E01	.157	17281	22.8	15	-F	3	C		21		
GRP90057	22	1657>9	1717+2	1743	N10	W16	.305	17279	21.5	46	-F						
HOLL	22	1657	1719	1754	N11	W15	.299	17279	21.6	57	-N	3	C		145		
RAMY	22	1716	1717	1732	N09	W17	.314	17279	21.4	16	-F	3	C		40		
GRP90058	22	1734+0	1734+1	1759	S18	E35	.641	17284	25.4	25	-F				30	.4	
RAMY	22	1734	1735	1758	S17	E35	.635	17284	25.4	24	-F	3	C		37		
BIGB	22	1734	1734	1759	S20	E35	.653	17284	25.4	25	-F	3	C	1734	30	.4	
HOLL	22	1734	1734	1759	S18	E34	.629	17284	25.3	25	-F	3	C		25		
59 CULG	22	2320	2324	2339	N09	W25	.436	17279	21.1	19	-N		C	2324	80	.9	
60 CULG	23	0035	0040	0102	N11	E39	.639	17288	25.9	27	-F		C	0040	40	.6	
61 CULG	23	0242	0252	0321	N16	W35	.605	17274	20.5	39	-F		C	0252	80	1.0	
62 CULG	23	0317	0334	0418	N18	W58	.858	17268	18.8	61	-F		C	0334	80	1.5	T
63 CULG	23	0325	0416	0429	N14	W14	.315	17281	22.1	64	-F		C	0416	180	1.9	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90064	23	1030+1	1030+1	1044	N16	W60	.872	17268	18.9	14	-F					
CATA	23	1030	1030	1040	N18	W61	.882	17268	18.9	10	-F	2 C	1030	56	1.2	
KANZ	23	1031	1031	1047	N15	W60	.871	17268	18.9	16	-F	2				
GRP90065	23	1317+1	1320+1	1334	N11	W12	.259	17281	22.7	17	-F					L
KANZ	23	1317	1321	1329	N12	W13	.282	17281	22.6	12	-F	2				L
ATHN	23	1318	1320	1338	N10	W12	.249	17281	22.7	20	-N	3 V	1320	48	.5	
	23	1414	1527	NO FLARE PATROL												
66 HOLL	23	1422	1428	1439	N16	W59	.864	17268	19.2	17	-F	3 C		13		
67 HOLL	23	1430	1440	1443	N09	W17	.315	17281	22.3	13	-F	3 C		28		
68 HOLL	23	1446	1455	1508	N15	W63	.895	17268	18.9	22	-F	3 C		66		
69 HOLL	23	1459	1500	1517	N12	W17	.336	17281	22.3	18	-N	3 C		67		
GRP90070	23	1729+0	1730 1742	1757	S11	W39	.654	17278	20.8	28	-F					
HOLL	23	1729	1730	1758	S11	W39	.654	17278	20.8	29	-F	3 C		57		
RAMY	23	1729	1742	1755	S11	W39	.654	17278	20.8	26	-F	3 C		31		
GRP90071	23	1751+1	1755+0 1845+0	2057	N11	W20	.372	17281	22.2	186	1B			230	2.5	
HOLL	23	1751	1755	1757D	N11	W18	.343	17281	22.4	6D	1B	3 C		231		D
BIGB	23	1752	1755	2057	N12	W19	.364	17281	22.3	185	2B	2 C	1755	480	5.2	
RAMY	23	1752	1755	2057	N11	W23	.416	17281	22.0	185	1B	3 C		237		
PALE	23	1756E	1756	1810	N11	W18	.343	17281	22.4	14D	-N	2 C		31		D
BIGB	23	1842	1845	1930	N14	W22	.421	17281	22.1	48	-F	2 C	1845	80	.9	
PALE	23	1842	1845	1930	N13	W23	.428	17281	22.1	48	-F	2 C		125		D
72 RAMY	23	2029	2030	2045	N06	W33	.547	17279	21.4	16	-F	3 C		33		
73 CULG	23	2110	2117	2127	N13	W20	.386	17281	22.4	17	-B	C	2117	140	1.5	
74 CULG	23	2135	2150	2235	N15	E33	.575	17288	26.4	60	-N	C	2150	100	1.2	
GRP90075	23	2152+4	2156+1	2235	N12	W21	.393	17281	22.3	43	-B			140	1.5	F
CULG	23	2152	2156	2236U	N12	W20	.379	17281	22.4	44D	-B	C	2156	160	1.8	F
HOLL	23	2153	2156	2235	N12	W21	.393	17281	22.3	42	-B	3 C		147		
PALE	23	2156	2157	2206	N12	W21	.393	17281	22.3	10	-N	2 C		110		
76 CULG	23	2217	2223	2232	S15	E15	.383	17284	25.1	15	-N	C	2223	80	.9	
77 CULG	23	2223	2228	2240	N22	E44	.734	17291	27.2	17	-F	C	2228	50	.8	
78 CULG	24	0034	0042	0053	N11	W42	.678	17279	20.9	19	-F	C	0042	60	.8	
GRP90079	24	0213+2	0215+3	0229	N13	W22	.415	17281	22.4	16	-F			70	.8	
CULG	24	0213	0215	0233	N13	W23	.429	17281	22.4	20	-N	C	0215	60	.7	
YUNN	24	0215	0218	0225	N13	W22	.415	17281	22.4	10	-F	C		80	.9	
80 CULG	24	0223	0229	0316	N11	W42	.678	17279	20.9	53	-F	C	0229	100	1.3	F
81 CULG	24	0237	0248	0320	S18	W60	.885	17273	19.6	43	-F	C	0248	10	.2	
82 CULG	24	0344	0416	0526	S20	E43	.737	17290	27.4	102	-F	C	0416	100	1.5	
GRP90083	24	0358+8	0410+4	0443	S09	W43	.697	17278	20.9	45	1N					
CULG	24	0358	0410	0456	S08	W43	.694	17278	20.9	58	2B	C	0410	400	5.6	
LEAR	24	0401	0411	0414D	S09	W43	.697	17278	20.9	13D	1N	3 C		389		
YUNN	24	0406	0414	0430	S09	W44	.709	17278	20.9	24	-N	P		129	1.9	
84 CULG	24	0403	0409	0439	N13	W24	.443	17281	22.4	36	-F	C	0409	60	.7	
GRP90085	24	0603+3	0607+0	0617	N11	W43	.690	17279	21.0	14	-B			140	1.9	
YUNN	24	0603D	0607	0612	N11	W44	.702	17279	21.0	9D	-N	P		129	1.9	
CULG	24	0606	0607	0621	N11	W43	.690	17279	21.0	15	1B	C	0607	160	2.2	
86 CULG	24	0649	0658	0708	N05	W22	.378	17281	22.6	19	-F	C	0658	90	1.0	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale Cen Dist	Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP90087	24	0702	0704	0720	N10	W43	.688	17279	21.1	18	-N			60	.8	D
CULG	24	0702	0704	0725	N11	W43	.690	17279	21.1	23	-N	C	0704	60	.6	
CATA	24	0705E	0705	0720	N11	W44	.702	17279	21.0	15D	-F	2 P	0705	67	1.0	
YUNN	24	0710E	0710	0714	N10	W44	.701	17279	21.0	4D	-N	P		16	.2	
ISTA	24	0712		0720	N10	W43	.688	17279	21.1	8	-N					D
88 CULG	24	0719	0729	0748	N05	W22	.378	17281	22.7	29	-F	C	0729	100	1.1	
GRP90089	24	0733	0736	0747	N18	W71	.948	17268	19.0	14	-F			35		
CULG	24	0733	0736	0748	N18	W71	.948	17268	19.0	15	-F	C	0736	40		
YUNN	24	0741E	0741	0745	N18	W71	.948	17268	19.0	4D	-N	P		32		
GRP90090	24	0842+3	0846+4	0900	N11	W22	.402	17281	22.7	18	-F			60	.7	E
KANZ	24	0842	0846	0901	N11	W23	.417	17281	22.6	19	-F	3				
CATA	24	0845	0850	0900	N12	W22	.408	17281	22.7	15	-F	2 C	0850	84	1.0	
WEND	24	0845	0848	0900	N11	W22	.402	17281	22.7	15	-F	C	0848	41	.5	E
GRP90091	24	0901+1	0904+1	0916	N12	E25	.451	17288	26.3	15	-F			40	.4	
KANZ	24	0901	0905	0917	N12	E25	.451	17288	26.3	16	-N	3				
WEND	24	0902	0904	0916	N12	E25	.451	17288	26.3	14	-F	C	0904	53	.6	
YUNN	24	0905E	0905	0910	N12	E26	.465	17288	26.3	5D	-F	C		32	.4	
GRP90092	24	0909>9	0928+2	0945	N09	W21	.376	17281	22.8	36	-N			170	1.8	
KANZ	24	0909	0928	0944	N08	W21	.372	17281	22.8	35	-N	3				
CATA	24	0910	0930	1010	N09	W22	.391	17281	22.7	60	-F	2 C	0930	168	1.9	
WEND	24	0914	0929	0945	N09	W21	.376	17281	22.8	31	-N	C	0929	150	1.7	
YUNN	24	0920	0930	0945	N10	W21	.381	17281	22.8	25	1N	C		353	3.9	
93 WEND	24	1205	1207	1211	S02	E23	.396	17287	26.2	6	-F	C	1207	18	.2	
94 KANZ	24	1242	1242	1254	N15	W60	.871	17274	20.0	12	-N	3				L
95 CATA	24	1250	1250	1255	N09	W27	.467	17281	22.5	5	-F	2 C	1250	28	.3	
GRP90096	24	1343+3	1349+2 1405	1453	N09	W25	.437	17281	22.7	70	1N			300	3.3	U
KANZ	24	1343	1351	1358D	N09	W25	.437	17281	22.7	15D	1B	3				
CATA	24	1345	1405	1415D	N10	W25	.441	17281	22.7	30D	2F	2 P	1405	478	5.5	
RAMY	24	1346	1349	1453	N07	W24	.414	17281	22.8	67	1B	3 C		298		
WEND	24	1350E		1408D	N10	W25	.441	17281	22.7	18D	1N	C	1355	300	3.5	U
GRP90097	24	1402+3	1405+0	1414	N12	E22	.408	17288	26.2	12	-F			60	.7	
RAMY	24	1402	1405	1412	N12	E22	.408	17288	26.2	10	-F	3 C		48		
CATA	24	1405	1405	1415D	N12	E23	.422	17288	26.3	10D	-F	2 P	1405	84	1.0	
98 RAMY	24	1405	1406	1415	N14	W60	.870	17274	20.1	10	-F	3 C		20		
GRP90099	24	1412+3	1414	1428	N10	W45	.713	17279	21.2	16	-F			40	.6	
RAMY	24	1412	1414	1428	N09	W45	.711	17279	21.2	16	-F	3 C		45		
CATA	24	1415	1415	1415D	N12	W45	.716	17279	21.2		-F	2 P	1415	28	.4	
	24	1415	2048	NO FLARE PATROL												
100 RAMY	24	1438	1438	1447	N10	W47	.736	17279	21.1	9	-N	3 C		145		
101 RAMY	24	1459	1459	1516	N08	W45	.710	17279	21.2	17	-F	3 C		27		
GRP90102	24	1651+2	1702+2	1741	N09	W26	.452	17281	22.8	50	-N			180	2.0	
HOLL	24	1651	1702	1744	N09	W26	.452	17281	22.8	53	-N	3 C		186		
RAMY	24	1653	1704	1738	N10	W27	.470	17281	22.7	45	-N	3 C		181		
103 HOLL	24	1830	1831	1847	N07	W46	.721	17279	21.3	17	-N	* C		49		
104 RAMY	24	1841	1844	1858	N10	W32	.542	17281	22.4	17	-F	3 C		27		
GRP90105	24	1847+2	1850+1	1855	N09	W50	.769	17279	21.0	8	-F			50	.8	
RAMY	24	1847	1851	1856	N09	W51	.780	17279	21.0	9	-F	* C		56		
HOLL	24	1849	1850	1854	N09	W50	.769	17279	21.0	5	-F	* C		52		
106 HOLL	24	2032	2038	2050	N07	W29	.490	17281	22.7	18	-F	3 C		116		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
107 CULG	24	2051	2100	2122	S19	E05	.364	17284	25.2	31	-F		C	2100	160	1.8	F
108 CULG	24	2123	2125	2134	N12	W30	.522	17281	22.6	11	-N		C	2125	80	1.0	
109 CULG	24	2144	2203	2219	N08	W29	.493	17281	22.7	35	-N		C	2203	150	1.7	F
	24	2324	2330	NO FLARE PATROL													
110 CULG	25	0032	0033	0044	N11	W35	.587	17281	22.4	12	-N		C	0033	30	.4	
111 CULG	25	0104	0107	0114	N01	E62	.883		29.7	10	-F		C	0107	40	.9	G
GRP90112	25	0225+3	0231+0	0241	N14	W69	.935	17274	19.9	16	1N				190		D
YUNN	25	0225	0231	0235	N11	W71	.946	17274	19.8	10	2N		C		241		
PEKG	25	0228	0231	0246	N17	W68	.930	17274	20.0	18	1F		P	0231	147		D
GRP90113	25	0235+5	0245+1	0254	N11	W54	.813	17279	21.1	19	-N						E
PEKG	25	0235	0245	0253	N10	W54	.812	17279	21.1	18	-N		P	0246	84	1.5	E
YUNN	25	0240	0246	0255	N13	W54	.815	17279	21.1	15	-N		C		16	.3	
GRP90114	25	0334E	0334	0339	N11	W54	.813	17279	21.1	5	-N				70	1.2	D
PEKG	25	0334E	0334	0338	N11	W55	.823	17279	21.0	4D	-F		P	0335	92	1.6	D
YUNN	25	0335E	0335	0340E	N12	W54	.814	17279	21.1	5D	-B		P		64	1.2	
115 YUNN	25	0355		0400	N08	W33	.551	17281	22.7	5	-N		P	0400	161	2.0	
GRP90116	25	0406+3	0412+4	0434	N08	W34	.566	17281	22.6	28	1F				200	2.4	FU
CULG	25	0406	0412	0430	N08	W35	.580	17281	22.5	24	1N		C	0412	200	2.4	F
PEKG	25	0409	0416	0437	N08	W34	.566	17281	22.6	28	1F		P	0416	210	2.6	U
GRP90117	25	0443+2	0446+1 0516	0525	N14	E16	.343	17288	26.4	42	1N				240	2.5	E
CULG	25	0443	0447	0531	N14	E16	.343	17288	26.4	48	1B		C	0447	190	2.0	
PEKG	25	0444	0446	0513	N15	E16	.353	17288	26.4	29	1N		P	0446	294	3.2	E
LEAR	25	0445	0446	0452D	N15	E16	.353	17288	26.4	7D	1N	3	C		236		
YUNN	25	0511E	0516	0525	N12	E17	.338	17288	26.5	14	-N		P		113	1.2	
GRP90118	25	0536+5	0544+4	0607	N13	E15	.320	17288	26.4	31	1N				200	2.1	E
YUNN	25	0536	0548	0548D	N12	E15	.311	17288	26.4	12D	1N		P		257	2.8	
CULG	25	0538	0548	0614	N13	E16	.334	17288	26.4	36	1N		C	0548	200	2.1	
PEKG	25	0541	0544	0559	N15	E15	.341	17288	26.4	18	-F		P	0544	118	1.3	E
GRP90119	25	0854+3	0858+1	0902	N16	W71	.947	17274	20.0	8	-N						
KANZ	25	0854	0858	0902	N15	W73	.957	17274	19.9	8	-N	3					
WEND	25	0857	0859	0902	N17	W70	.942	17274	20.1	5	-N		C	0859	56		
GRP90120	25	0924	0928	0940	N06	W55	.819	17279	21.3	16	-F						
KANZ	25	0924	0928	0939	N06	W55	.819	17279	21.3	15	-F	3					
CATA	25	0930E	0930	0940	N07	W56	.830	17279	21.2	10D	-F	2	P	0930	28	.5	
GRP90121	25	0940+7	0953+2	1004	N08	W37	.607	17281	22.6	24	-N						E
CATA	25	0940	0955	1000D	N09	W37	.609	17281	22.6	20D	1F	2	P	0955	169	2.2	
KANZ	25	0947	0955	1009	N07	W37	.605	17281	22.6	22	-N	3					
HTPR	25	0951E		1004D	N12	W37	.423	17281	22.6	13D	-N		C	0952	70	.8	E
YUNN	25	0953E	0953	1003	N08	W38	.621	17281	22.6	10D	-N		C		16	.2	
122 ABST	25	1114	1117	1120	N15	W80	.985	17268	19.5	6	-F		C	1117	87		DJ
	25	1455	1501	NO FLARE PATROL													
	25	1518	1526	NO FLARE PATROL													
123 RAMY	25	1713	1713	1743	N08	W40	.647	17281	22.7	30	-N	3	C		151		
124 RAMY	25	1732	1736	1753	N07	W59	.857	17279	21.3	21	-F	3	C		29		
GRP90125	25	2023>9	2110+2	2133	N14	E11	.283	17288	26.7	70	1N				250	2.6	F
CULG	25	2023	2112	2138	N14	E07	.244	17288	26.4	75	1B		C	2112	240	2.4	F
BIGB	25	2103	2110	2128	N15	E15	.341	17288	27.0	25	1N	3	C	2110	260	2.8	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90126	25	2035+1	2040+1	2131	S11	W68	.932	17278	20.8	56	1B				210		
CULG	25	2035	2041	2057	S10	W64	.904	17278	21.1	22	1B		C	2041	100	2.3	
BIGB	25	2036	2040	2131	S11	W68	.932	17278	20.8	55	1B	3	C	2040	210		
HOLL	25	2036	2040	2131D	S12	W70	.945	17278	20.6	55D	1B	3	C		239		
127 CULG	25	2324	2327U	2329D	N10	W43	.689	17281	22.7	5D	-F		P	2327	40	.5	
GRP90128	26	0000+0	0004	0011	N11	W45	.715	17281	22.6	11	-F						H
YUNN	26	0000E	0000	0009	N12	W42	.681	17281	22.9	9D	-N		P		32	.5	
CULG	26	0000	0004	0012	N11	W49	.761	17281	22.3	12	-F		C	0004	40	.6	H
129 YUNN	26	0000E	0014	0023	N17	W79	.982	17274	20.1	23D	?N		P		241		A
		IMP.2 NO : CULG MITK VORO															
130 YUNN	26	0009	0014	0022	N13	E59	.862	17295	30.4	13	?N		C		161	3.2	
		IMP.1 NO : CULG MITK VORO															
131 VORO	26	0012	0014	0016	S15	E90	1.000	17304	2.8	4	-F		C	0014	22		D
132 YUNN	26	0305	0311	0316	N12	W64	.901	17279	21.3	19I	-N		C		80	1.9	T
133 CULG	26	0331E	0339	0358	N15	E03	.238	17288	26.4	27D	?F		P	0339	350	3.5	
		IMP.1 NO : MITK YUNN															
134 YUNN	26	0416	0423	0450	N17	W80	.985	17274	20.2	34	-N		C		48		AEK
GRP90135	26	0416+2	0419+4	0438	N15	E04	.242	17288	26.5	22	-N						EG
YUNN	26	0416	0423	0433	N15	E05	.248	17288	26.6	17	1N		C		401	4.3	
MITK	26	0418	0419	0442	N15	E04	.242	17288	26.5	24	1N		C				EG
GRP90136	26	0420+9	0428+5	0452	N09	W65	.907	17279	21.3	32	1N				130	3.1	
YUNN	26	0420	0428	0450	N11	W62	.885	17279	21.5	30	1N		C		129	3.0	
MITK	26	0429	0430	0452	N08	W65	.907	17279	21.3	23	1F		C		130		
CULG	26	0431E	0433	0452	N09	W65	.907	17279	21.3	21D	1N		P	0433	120	2.0	
137 CULG	26	0435	0442	0511	N12	W45	.717	17281	22.8	36	-F		C	0442	60	.9	
138 YUNN	26	0451	0451	0500	N13	E58	.853	17295	30.6	9	?N		C		161	3.2	
		IMP.1 NO : MITK CULG															
139 YUNN	26	0451	0459	0505	N18	W80	.985	17274	20.2	14	?N		C		321		AK
		IMP.2 NO : MITK CULG															
140 YUNN	26	0552	0555	0600	S32	E22	.636	17293	27.9	8	-N		C		80	1.1	
GRP90141	26	0608+2	0612+4	0630	N08	W67	.921	17279	21.2	22	-N						DJ
CULG	26	0608	0616	0638	N08	W65	.907	17279	21.4	30	-F	*	C	0616	30		
ABST	26	0610	0612	0622	N08	W70	.940	17279	21.0	12	1N	*	C	0612	87		DJ
142 ABST	26	0611	0614	0624	N17	W90	1.000	17274	19.5	13	?N		C	0614	87		AD
		IMP.1 NO : MITK YUNN															
GRP90143	26	0752+6	0755 0802+1	0822	N09	W68	.927	17279	21.2	30	-N				45		DJV
CULG	26	0752	0802	0804D	N08	W65	.907	17279	21.5	12D	-N		P	0802	40		
ABST	26	0754	0755	0818	N08	W70	.940	17279	21.1	24	1N		C	0755	87		DJV
BUCA	26	0755		0830	N09	W69	.934	17279	21.2	35	-N		C	0804	43	1.2	D
ISTA	26	0755		0818	N13	W69	.935	17279	21.2	23	-N						E
LEAR	26	0756	0803	0805D	N09	W66	.914	17279	21.4	9D	-B	3	C		73		D
YUNN	26	0758	0802	0825	N09	W70	.940	17279	21.1	27	-N		C		32		
GRP90144	26	0815+0	0825	0830	N16	W88	.999	17274	19.7	15	1N						ADJK
ABST	26	0804	0812	0830	N17	W90	1.000	17274	19.6	26	1N		C	0812	87		ADJK
YUNN	26	0815	0825	0835	N15	W88	.999	17274	19.7	20	1N		C		48		A
ISTA	26	0815		0823	N16	W79	.982	17274	20.4	8	-N						D
145 KANZ	26	1128	1132	1147	N15	E00	.233	17288	26.5	19	-F	2					
	26	1155	1210	NO FLARE PATROL													
	26	1215	1222	NO FLARE PATROL													
	26	1230	1235	NO FLARE PATROL													

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
	26	1400	1512	NO FLARE PATROL													
146 BIGB	26	1846	1849	1858	N09	W75	.966	17279	21.2	12	-N	3	C	1849	120		
147 HOLL	26	1925	2003	2022	N23	E69	.940	17298	2.0	57	-B	3	C		63		
148 CULG	26	2208	2217	2228	N17	W08	.298	17288	26.3	20	-F		C	2217	140	1.4	
149 CULG	26	2309	2313	2325	N17	W08	.298	17288	26.4	16	-F		C	2313	100	1.0	
150 CULG	26	2356	2356	0004	N11	W68	.928	17281	21.9	8	-F		C	2356	30	.7	
151 YUNN	27	0125	0127	0130	S12	E90	1.000	17305	3.8	5	?N		C		48		
			IMP.1 NO : CULG MITK VORO														
152 CULG	27	0155	0159	0206	N02	W60	.866	17281	22.6	11	-F		C	0159	60	1.3	
153 YUNN	27	0206	0211	0219	S12	E90	1.000	17305	3.8	13	?N		C		48		
			IMP.1 NO : VORO MITK														
GRP90154	27	0303+6	0310+6	0325	N14	W09	.266	17288	26.5	22	-F						
CULG	27	0303	0310	0325	N13	W10	.263	17288	26.4	22	-N		C	0310	80	.8	
YUNN	27	0309	0316	0324	N15	W09	.280	17288	26.5	15	-F		C		32	.4	
155 CULG	27	0406	0409	0414	N18	E45	.733	17295	30.5	8	-F		C	0409	20	.3	
GRP90156	27	0506+6	0509+5	0525	S12	E86	.998	17304	3.7	19	-N				60		
CULG	27	0506	0509	0515	S14	E85	.997	17304	3.6	9	-F		C	0509	40		
YUNN	27	0512	0514	0535	S11	E88	1.000	17304	3.8	23	1N		C		80		
157 CULG	27	0600	0602	0611	N15	E14	.332	17294	28.3	11	-F		C	0602	60	.6	
GRP90158	27	0613+1	0616+2	0640	S11	E84	.995	17304	3.6	27	1N				90		DK
ABST	27	0613	0618	0645	S11	E80	.986	17304	3.3	32	1N		C	0618	87		DK
YUNN	27	0614	0616	0625	S10	E84	.995	17304	3.6	11	1N		C	0621	96		
CULG	27	0628E	0628U	0640	S14	E85	.997	17304	3.6	12D	-F		C	0628	40		
159 YUNN	27	0727	0737	0746	N15	E14	.332	17294	28.4	19	-N		C		113	1.2	
GRP90160	27	0741+3	0745+2	0755	S11	E80	.986	17304	3.3	14	1N				70		DJ
YUNN	27	0741D	0745	0750	S12	E80	.986	17304	3.3	9D	1N		P		80		
ABST	27	0744	0747	0755	S11	E80	.986	17304	3.3	11	1N		C	0747	87		DJ
MANI	27	0747E	0747U	0755D	S11	E77	.976	17304	3.1	8D	-N	1	V		50	1.2	
GRP90161	27	0823+3	0828+2	0900	S10	E79	.983	17304	3.3	37	1N				120		DJ
YUNN	27	0823	0828	0858	S10	E79	.983	17304	3.3	35	1N		C		161		
ABST	27	0826	0830	0902	S11	E80	.986	17304	3.4	36	1N		C	0830	87		DJ
162 YUNN	27	0954	0957	1012	S11	E76	.973	17304	3.1	18	2N		C		353		
163 YUNN	27	1010	1012	1013D	N16	E43	.705	17295	30.6	3D	-N		P		129	1.9	
	27	1013	1020	NO FLARE PATROL													
	27	1025	1144	NO FLARE PATROL													
	27	1220	1504	NO FLARE PATROL													
164 RAMY	27	1228	1237	1334	N15	E10	.289	17294	28.3	66	-F	3	C		182		
165 RAMY	27	1240	1242	1255	N03	W64	.899	17281	22.7	15	-N	3	C		18		
166 HOLL	27	1533	1535	1543	S11	W12	.296	17289	26.7	10	-F	3	C		23		
167 HOLL	27	1813	1815	1838	S09	E72	.954	17304	3.2	25	-F	3	C		23		
168 HOLL	27	1824	1831	1843	N14	W20	.398	17288	26.3	19	-F	3	C		47		
GRP90169	27	2053+1	2054+4	2114	N17	E05	.281	17294	28.2	21	-N				70	.7	
HOLL	27	2053	2054	2111	N18	E04	.293	17294	28.2	18	-B	3	C		60		
CULG	27	2054	2058	2116	N17	E06	.287	17294	28.3	22	-N		C	2058	80	.8	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP90170	27	2134+2	2136+1	2148	N13	W21	.404	17288	26.3	14	-N			60	.7	
CULG	27	2134	2136	2146	N13	W20	.390	17288	26.4	12	-N	C	2136	60	.7	
HOLL	27	2136	2137	2150	N14	W22	.425	17288	26.2	14	-N	3 C		67		
171 HOLL	27	2141	2154	2155	N16	E04	.261	17294	28.2	14	-F	3 C		31		
172 BIGB	27	2202	2207	2303	S10	E70	.943	17304	3.2	61	-N	3 C	2207	80		
	28	0031	0038	NO FLARE PATROL												
173 YUNN	28	0146D	0151	0205	N15	W21	.420	17288	26.5	19D	?N	P		321	3.7	
			IMP.1	NO : PURP												
174 YUNN	28	0338D	0344	0348	S11	E69	.938	17304	3.3	10D	-N	P		48		
175 YUNN	28	0444	0453	0505E	N06	W75	.966	17281	22.6	21D	-N	P		32		
GRP90176	28	0535+2	0542+3	0554	S11	W48	.758	17285	24.6	19	1N					
YUNN	28	0535D	0545	0600	S10	W48	.756	17285	24.6	25D	1N	P		161	2.6	
LEAR	28	0537	0542	0545D	S11	W48	.758	17285	24.6	8D	1N	3 C		286		
MANI	28	0540E	0543	0547	S12	W46	.738	17285	24.8	7D	-N	1 V		100	1.5	
177 YUNN	28	0626	0627	0647	N15	W01	.238	17294	28.2	21	-N	C		161	1.7	
178 MANI	28	0728E	0728U	0740D	N16	W39	.658	17286	25.4	12D	-N	1 V		80	1.1	
179 YUNN	28	0745	0750	0800	S32	W05	.554	17293	27.9	15	-F	C		96	1.2	
GRP90180	28	0925>9	0948+0	1230	S13	E63	.899	17304	3.1	185	1N					K
			1005+5													
CATA	28	0925	1005	1005D	S14	E63	.900	17304	3.1	40D	2F	2 P	1005	225	5.3	
YUNN	28	0931	1010	1013D	S14	E62	.893	17304	3.0	42D	3B	P		530	12.5	
HTPR	28	0937	0948	1230	S12	E65	.913	17304	3.3	173	-N	C	0948	80	1.9	EK
LEAR	28	0939	0948	1021D	S13	E62	.892	17304	3.1	42D	-B	2 C		75		D
CATA	28	1040E	1040	1050D	S15	E65	.916	17304	3.3	10D	2F	2 P	1040	393		
181 HTPR	28	1408	1416	1425	N13	E23	.432	17295	30.3	17	-F	C	1416	30	.3	E
	28	1440	1457	NO FLARE PATROL												
182 HOLL	28	1515	1519	1522	S10	E60	.873	17304	3.1	7	-F	2 C		16		
183 HOLL	28	1519	1521	1524	N14	W30	.534	17288	26.4	5	-F	2 C		34		
GRP90184	28	2236>9	2239	2348	N16	W11	.314	17294	28.1	72	-F					K
			2337													
CULG	28	2236	2239	2356	N16	W10	.304	17294	28.2	80	-N	C	2239	190	2.0	KF
VORO	28	2337	2337	2340	N16	W13	.334	17294	28.0	3	-F	C	2337	22	.2	D
GRP90185	28	2254+2	2309+3	2324D	N23	E42	.721	17298	2.1	30	-N					F
CULG	28	2254	2309	0019	N23	E43	.732	17298	2.2	85	1N	C	2309	240	3.6	F
BIGB	28	2256	2312	2324	N24	E42	.726	17298	2.1	28	-N	3 C	2312	60	.8	
GRP90186	29	0009>9	0023+2	0047D	S08	W32	.548	17289	26.6	38	?F					G
CULG	29	0009	0023	0140	S08	W32	.548	17289	26.6	91	?F	C	0023	460	5.3	F
			IMP.2	IMP.S												
VORO	29	0022	0025	0047	S09	W32	.551	17289	26.6	25	-F	C	0025	152	1.8	EG
GRP90187	29	0057+0	0058	0109D	S10	E54	.818	17304	3.1	12	-N					G
			0105													
VORO	29	0057	0058	0109	S10	E55	.828	17304	3.2	12	-F	C	0058	45	.8	EG
CULG	29	0057	0105	0212	S10	E53	.808	17304	3.0	75	1N	C	0105	180	3.2	F
188 CULG	29	0100	0102	0106	N16	E13	.336	17295	30.0	6	-F	C	0102	120	1.3	
GRP90189	29	0249>9	0311+1	0330	N13	E15	.326	17295	30.2	41	-N			170	1.8	
CULG	29	0249U	0312U	0334D	N13	E14	.313	17295	30.2	45D	-N	P	0312	180	1.9	
YUNN	29	0305	0311	0325	N13	E16	.338	17295	30.3	20	1F	C		173	2.1	
190 CULG	29	0430	0433	0450	N22	E44	.738	17298	2.5	20	?F	C	0433	150	2.3	F
			IMP.1	NO : MITK YUNN												

H - ALPHA SOLAR FLARES

NOVEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
191 CULG	29	0519	0529	0550	N15	W09	.283	17294	28.5	31	-F	C	0529	40	.4	
192 YUNN	29	0627	0632	0647	N13	E15	.326	17295	30.4	20	-N	C		48	.5	
193 CULG	29	0704	0708	0714	S12	E47	.749	17304	2.8	10	-N	C	0708	40	.6	
GRP90194	29	0714+2	0717+1	0722	N11	E43	.692	17301	2.5	8	-F			60	.8	G
CULG	29	0714	0717	0720	N10	E44	.702	17301	2.6	6	-F	C	0717	70	1.0	
YUNN	29	0716	0718	0723E	N12	E42	.682	17301	2.5	7D	-N	P		48	.8	G
GRP90195	29	0723+2	0728+1	0739	N16	W38	.647	17288	26.5	16	-N			140	1.8	G
YUNN	29	0723	0728	0737	N16	W39	.659	17288	26.4	14	1N	C		161	2.2	G
CULG	29	0725	0729	0740D	N16	W37	.634	17288	26.5	15D	-N	P	0729	120	1.6	
	29	1055	1145	NO FLARE PATROL												
	29	1221	1301	NO FLARE PATROL												
196 RAMY	29	1229	1230	1236	N13	E11	.277	17295	30.3	7	-N	3 C		30		
	29	1400	1432	NO FLARE PATROL												
197 RAMY	29	1439	1441	1445	S10	E42	.685	17304	2.8	6	-N	3 C		25		
	29	1501	1605	NO FLARE PATROL												
198 RAMY	29	1612	1627	1658	N17	E54	.823	17301	3.7	46	-F	3 C		88		
199 RAMY	29	1636	1643	1654	N13	E09	.256	17295	30.4	18	-F	3 C		28		
200 RAMY	29	1847	1851	1909	S10	E48	.755	17304	3.4	22	-F	3 C		25		
201 HOLL	29	2007	2010	2020	S07	E41	.665	17304	2.9	13	-N	3 C		28		
202 CULG	29	2046	2049U	2102	N16	W48	.761	17288	26.3	16	-N	C	2049	80	1.1	
GRP90203	29	2109+1	2125 2149+0	2304	N18	W19	.425	17294	28.5	115	-N			70	.8	FKU
CULG	29	2109	2204D	2346U	N19	W19	.435	17294	28.5	157D	1N	P	2204	260	2.9	UFK
HOLL	29	2110	2149	2304	N20	W24	.501	17294	28.1	114	-N	3 C		101		
BIGB	29	2110	2149	2304	N18	W20	.436	17294	28.4	114	-N	2 C	2149	70	.8	
PALE	29	2121	2125	2139	N18	W18	.413	17294	28.5	18	-F	2 C		52		
PALE	29	2145	2149	2214	N17	W19	.415	17294	28.5	29	-F	2 C		32		
GRP90204	29	2146+0	2154+0	2203	S10	E43	.698	17304	3.1	17	-F					
CULG	29	2146	2154U	2204D	S11	E43	.700	17304	3.1	18D	-F	P	2154	100	1.4	
HOLL	29	2146	2154	2202	S09	E44	.707	17304	3.2	16	-N	3 C		40		
205 CULG	29	2326	2328	2336	S13	E36	.621	17304	2.7	10	-F	C	2328	60	.8	
206 CULG	29	2328	2337	0002	N21	W38	.670	17291	27.1	34	-F	C	2337	60	.8	
GRP90207	29	2343+5	2348+3	0027	N23	E31	.604	17298	2.3	44	1N			190	2.4	F
YUNN	30	0005E	0005	0027	N24	E31	.613	17298	2.3	22D	1N	P		274	3.6	
CULG	29	2343	2348	0045	N24	E26	.559	17298	1.9	62	1B	C	2348	240	2.9	F
MANI	29	2347E	2351	0000D	N22	E31	.597	17298	2.3	13D	-N	1 V		150	2.0	F
PALE	29	2348	2349	0004	N25	E30	.609	17298	2.2	16	-F	2 C		86		
LEAR	29	2349E	2350U	2356D	N21	E32	.602	17298	2.4	7D	1N	3 C		234		
208 CULG	29	2351	2353	0020	N13	E05	.222	17295	30.4	29	-F	C	2353	100	1.0	
GRP90209	30	0014+2	0018 0038	0110	N20	W19	.447	17294	28.6	56	-N					
CULG	30	0014	0018	0100U	N20	W19	.447	17294	28.6	46D	-N	C	0018	180	2.0	
YUNN	30	0016	0038	0110	N21	W20	.468	17294	28.5	54	1N	C		193	2.2	
210 CULG	30	0028	0029	0038	S07	E37	.613	17304	2.8	10	-F	C	0029	60	.8	
211 CULG	30	0047	0052	0110	S10	E53	.808	17305	4.0	23	-F	C	0052	100	1.6	
212 CULG	30	0054	0059	0106	S11	E42	.688	17304	3.2	12	-N	C	0059	120	1.9	

H - ALPHA SOLAR FLARES

NOVEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale Cen Dist	Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90213	30	0106+3	0116+2	0200	S06	E11	.226	17300	30.9	54	1B				340	3.5	GU
YUNN	30	0106D	0116	0147	S08	E10	.233	17300	30.8	41D	1B		P		321	3.4	G
CULG	30	0108	0118	0230	S06	E12	.240	17300	30.9	82	1B		C	0118	300	3.0	UF
LEAR	30	0109	0117	0119D	S06	E11	.226	17300	30.9	10D	1N	3	C		402		
PEKG	30	0130E	0130	0200	S07	E11	.235	17300	30.9	30D	-N		P	0130	134	1.4	E
214 YUNN	30	0214	0219	0236	N20	W40	.688	17291	27.1	22	-N		C		48	.7	
GRP90215	30	0220	0250+0	0300	N20	W20	.458	17294	28.6	40	-N						
CULG	30	0220	0250U	0300U	N20	W20	.458	17294	28.6	40D	1N		C	0250	230	2.5	
YUNN	30	0245D	0250	0300	N20	W20	.458	17294	28.6	15D	-N		P		80	.9	
216 CULG	30	0253	0254	0259	S06	E38	.624	17304	3.0	6	-F		C	0254	40	.5	
217 CULG	30	0408	0412	0430U	N13	E23	.434	17296	1.9	22D	-F		C	0412	110	1.3	F
218 YUNN	30	0433	0438	0452	N21	W21	.479	17294	28.6	19	-F		C		80	.9	
219 CULG	30	0458	0459	0504	N22	W20	.479	17292	28.7	6	-N		C	0459	60	.7	
GRP90220	30	0545E	0548+2	0557	N14	E02	.227	17295	30.4	12	-N				180	1.8	
YUNN	30	0445D	0550	0555	N14	E02	.227	17295	30.3	70D	-B		P		161	1.7	
CULG	30	0545	0548	0558	N15	E02	.244	17295	30.4	13	-N		C	0548	200	2.0	
221 CULG	30	0602	0604	0620	N12	E00	.190	17295	30.3	18	?F		C	0604	210	2.1	
			IMP.1 NO : YUNN														
222 YUNN	30	0635E	0635	0655	S13	E41	.682	17304	3.3	20D	-F		P		96	1.4	
223 YUNN	30	0943	0947	1001	N20	W24	.503	17294	28.6	18	-F		C		123	1.3	
GRP90224	30	1025	1030+0	1046	N19	W43	.717	17291	27.2	21	-N				120	1.7	
CATA	30	1025	1030	1045	N20	W45	.742	17291	27.1	20	1F	2	C	1030	140	2.2	
ATHN	30	1030E	1030	1047D	N19	W42	.706	17291	27.3	17D	-N	3	V	1030	98	1.4	
	30	1132	1153	NO FLARE PATROL													
225 RAMY	30	1143E	1143U	1219	S34	W31	.714	17293	28.2	36D	-F	3	C		24		
226 RAMY	30	1151	1206	1250	N20	W22	.480	17292	28.8	59	-N	3	C		109		
	30	1202	1220	NO FLARE PATROL													
	30	1235	1642	NO FLARE PATROL													
227 RAMY	30	1236	1243	1246D	N20	W46	.752	17291	27.1	10D	-B	3	C		84		D
228 RAMY	30	1413	1421	1426	N20	W46	.752	17291	27.1	13	-F	3	C		71		
229 RAMY	30	1435	1436	1446	S11	E27	.491	17304	2.6	11	-N	3	C		41		

H - ALPHA SOLAR FLARES

NOVEMBER 1980

	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Apper (Disk)	Corr (Sq Deg)	Remarks
230	RAMY	30	1534	1537	1539	S11	E34	.586	17304	3.2	5	-F	3 C		39		
231	RAMY	30	1704	1705	1718	S34	W37	.758	17293	27.9	14	-F	3 C		23		
232	RAMY	30	1743	1753	1800	S10	E42	.685	17305	3.9	17	-F	3 C		33		
233	BIGB	30	1834E	1835	1837	N20	W30	.573	17294	28.5	3D	-F	3 P	1835	60	.7	

"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by high-speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the H and K lines of Ca II.
P = Flare shows helium D3 in emission.
Q = Flare shows Balmer continuum in emission.
R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
S = Brightness follows disappearance of filament in same position.
T = Region active all day.
U = Two bright branches, parallel or converging.
V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide H-alpha line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

The 4-digit number appearing under "Remarks" denotes the calcium plage region number assigned by the Space Environment Services Center in Boulder, Colorado.

DAILY FLARE INDICES
(Includes all Flares)

NOVEMBER 1980

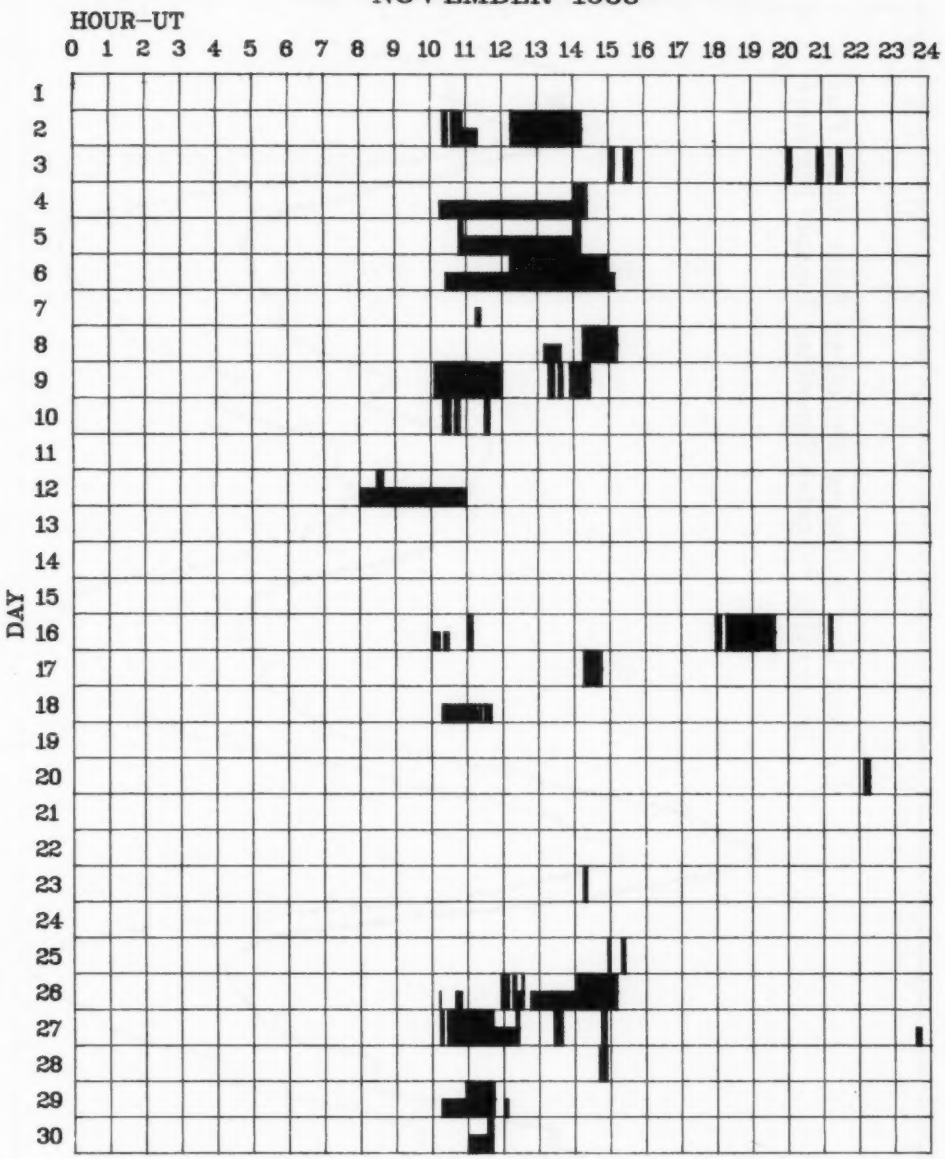
Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed
01	192.69	21.7	11	436.65	18.6	21	105.29	23.9
02	287.00	13.9	12	1115.73	22.4	22	191.53	24.0
03	201.37	18.3	13	665.90	24.0	23	90.62	22.8
04	281.53	22.7	14	340.17	24.0	24	218.76	17.3
05	367.86	23.0	15	78.43	24.0	25	173.11	23.8
06	625.34	21.0	16	412.05	18.5	26	48.92	22.3
07	1201.13	23.9	17	137.97	18.5	27	155.76	19.8
08	819.88	23.0	18	184.35	19.6	28	42.64	23.6
09	394.29	18.7	19	243.38	17.7	29	103.14	20.9
10	463.21	20.4	20	190.98	19.1	30	169.92	19.2

*When no flare index is given, it is zero for that day.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

NOVEMBER 1980

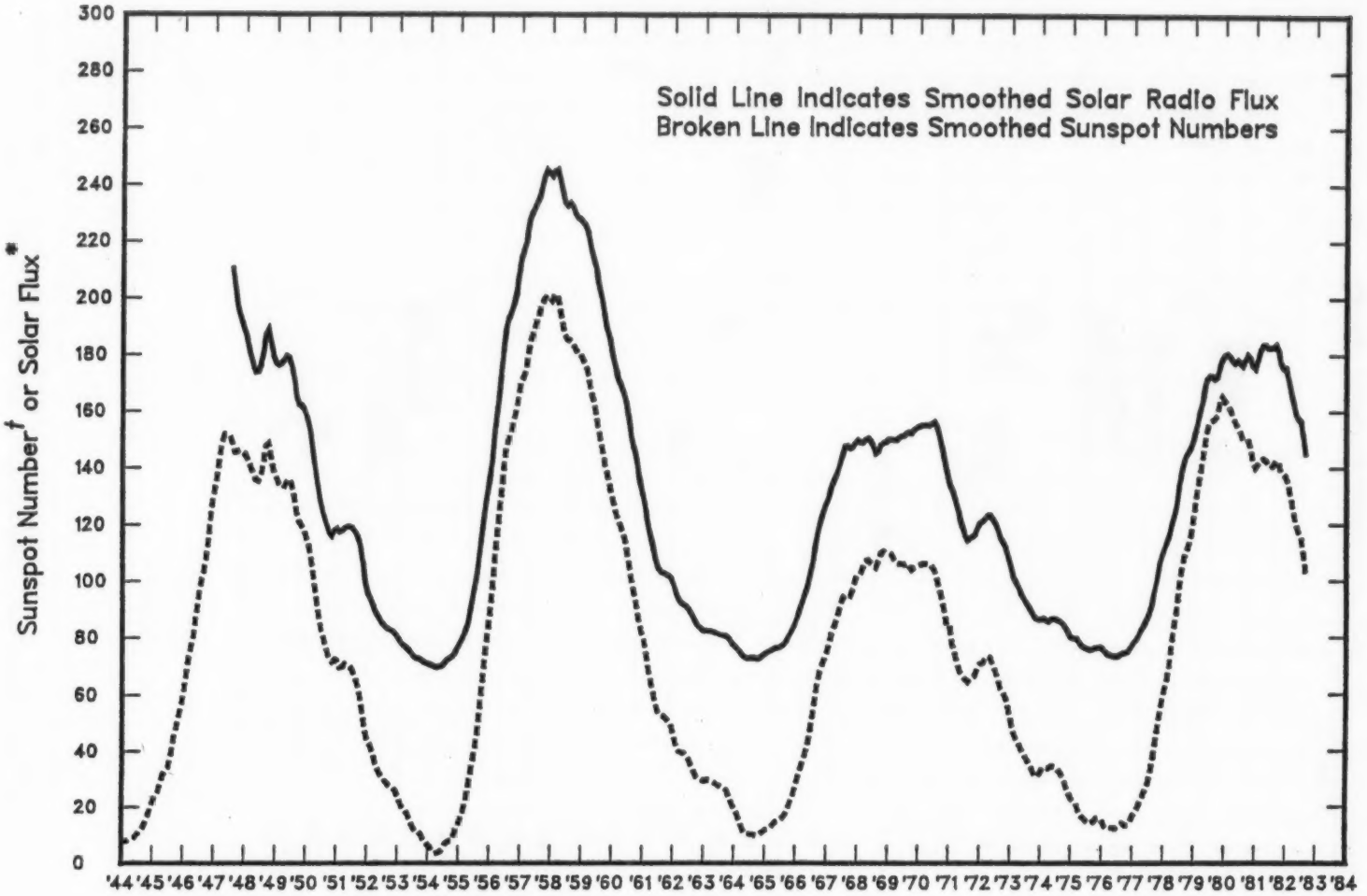


Observatories included in total patrol:

Abastumani	Bucharest	Holloman	Learmonth	Ramey
Athens	Catania	Huancayo	Lvov	Tashkent
Bern	Culgoora	Kanzelhoehe	Manila	Voroshilov
Big Bear	Haute Provence	Kharkov	Palehua	Wendelstein
			Purple Mt.	Yunnan

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

SUNSPOT NUMBERS AND 10.7 cm SOLAR RADIO FLUX
January 1944 – September 1982



* Solar Flux Units (10^{-22} W/m^2 Hz) Adjusted to 1 A.U., Ottawa Series D.
† Reduced Zürich Sunspot Numbers.

National Geophysical Data Center

SGD 467 Part II (Comprehensive)

MISCELLANEOUS DATA

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ACTIVE REGIONS
CARRINGTON ROTATION 1726
(September 4 to October 1, 1982)

Region No.	Coordinates Lat.	Long.	IMP	Age at CMP (Days)	Spot-less Region	Region No. in Rotation 1725	Activity at West Limb
1	20°N	350	2	-3			dispersed
2	26°N	350	1	+1	x		disappeared
3	15°S	344	1	-3	x		dispersed
4	5°N	339	1	>6	x	7	dispersed
5	12°N	336	3	>6		3	decreasing
6	26°S	334	1	>6	x		dispersed
7	21°N	330	1	>6	x	2	decreasing
8	7°S	330	1	>6	x		decreasing
9	14°N	329	4	>6			decreasing
10	9°S	300	2	>6			disappeared
11	22°N	294	2	+1	x	9	dispersed
12	11°S	294	2	+1			decreasing
13	8°S	292	1	>6	x		disappeared
14	15°S	291	1	>6	x		disappeared
15	6°N	286	3	>6			decreasing
16	12°N	280	1	>6	x	19	decreasing
17	16°S	178	1	>6	x		dispersed
18	11°S	269	3	>6		(20-22)	decreasing
19	24°N	265	1	>6	x		dispersed
20	22°S	262	3	+4			decreasing
21	18°N	256	1	>6	x		decreasing
22	17°N	218	2	0			decreasing
23	14°S	212	4	>6			decreasing
24	10°S	210	2	>6			decreasing
25	8°S	185	1	+5	x		disappeared
26	3°N	182	3	+5			decreasing
27	16°S	179	3	+5			decreasing
28	18°S	159	1	>6	x		decreasing
29	9°S	156	4	>6			decreasing
30	13°S	153	2	0			decreasing
31	18°N	147	4	>6			decreasing
32	25°N	147	1	>6	x		decreasing
33	14°N	137	4	>6		43	decreasing
34	11°S	134	1	+5	x		disappeared
35	24°N	131	1	>6	x	42	decreasing
36	16°N	129	3	>6			decreasing
37	7°S	126	2	+3			decreasing
38	6°S	114	2	-1			decreasing
39	11°N	105	1	>6	x	46	dispersed
40	8°S	102	1	+6	x		disappeared
41	14°N	92	1	>6	x		dispersed
42	10°S	88	1	+3	x		dispersed
43	7°S	68	1	+4	x		disappeared
44	7°N	65	1	>6	x	54	dispersed
45	12°N	65	1	>6	x		decreasing
46	16°S	62	2	>6			decreasing
47	8°S	49	2	-1			dispersed
48	16°N	41	3	>6			decreasing
49	10°S	40	5	0			stable
50	15°N	34	3	+3			decreasing
51	11°S	33	1	>6	x		decreasing
52	14°N	23	5	>6			decreasing
53	17°S	15	3	+2			decreasing
54	4°S	14	1	>6	x	66	dispersed
55	13°N	12	3	0			decreasing
56	22°S	12	3	>6		65	decreasing
57	1°S	9	3	>6			decreasing

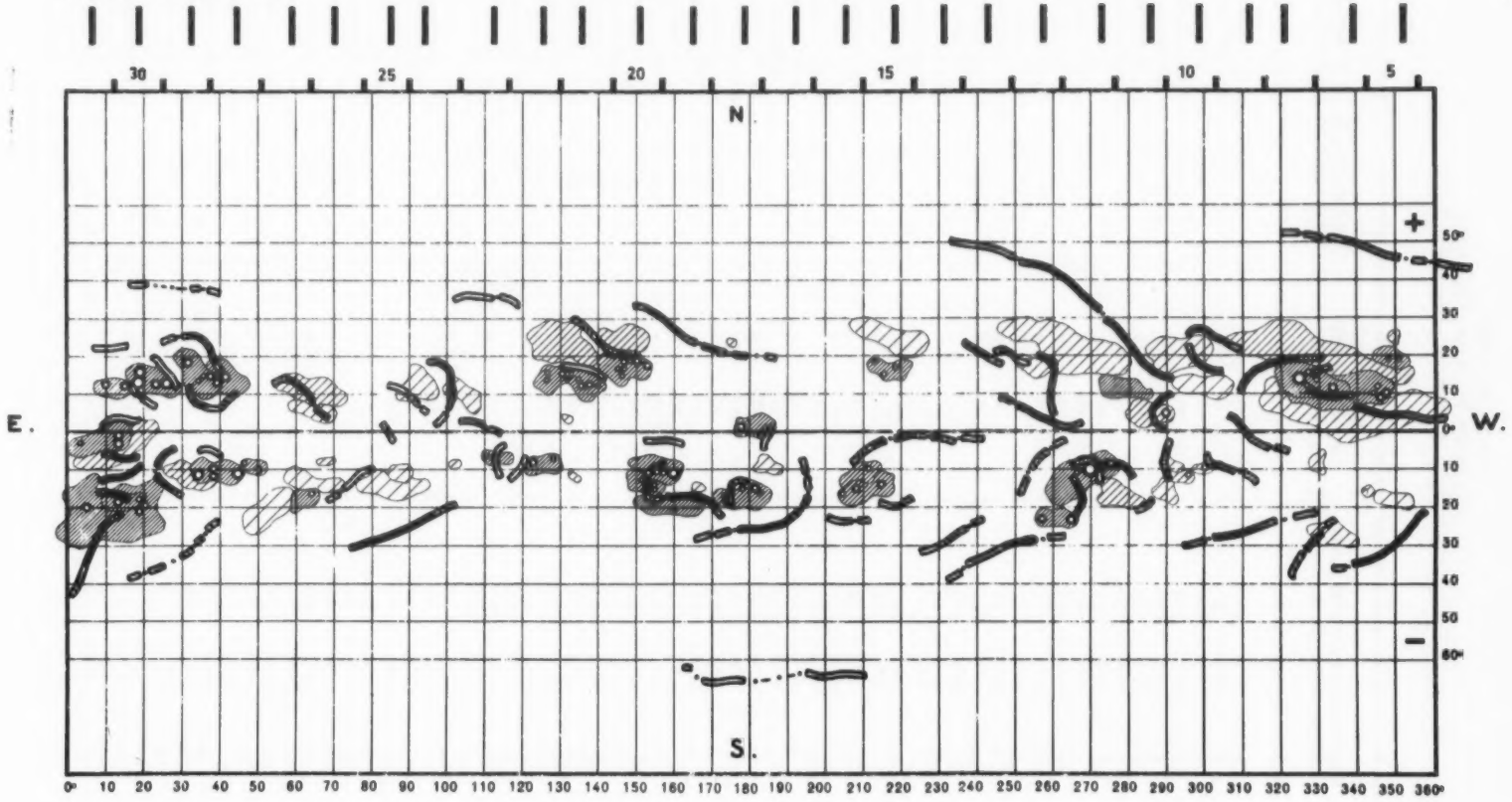
ACTIVE REGIONS
CARRINGTON ROTATION 1727
(October 1 to October 29, 1982)

Region No.	Coordinates Lat.	Long.	IMP	Age at CMP (Days)	Spot-less Region	Region No. In Rotation 1726	Activity at West Limb
1	15°N	355	1	>6	x		dispersed
2	17°N	355	2	0			decreasing
3	8°N	348	2	-4			stable
4	10°S	339	1	>6	x		dispersed
5	18°N	339	1	>6	x	7	decreasing
6	13°N	326	1	>6	x	9	decreasing
7	25°N	316	1	>6	x	7	decreasing
8	14°N	303	1	-2	x		stable
9	1°S	296	1	+6	x		disappeared
10	13°N	280	1	>6	x	16	dispersed
11	19°S	277	1	>6	x	9	dispersed
12	10°S	272	2	>6		18	decreasing
13	26°S	267	1	>6	x		decreasing
14	18°S	261	1	>6	x	18	dispersed
15	15°N	256	1	0	x		dispersed
16	16°N	248	2	+1			dispersed
17	8°N	246	1	>6	x		decreasing
18	23°N	245	3	+6			stable
19	8°N	231	1	+1	x		disappeared
20	9°S	222	3	-2			stable
21	19°N	219	1	>6	x	22	dispersed
22	4°N	211	2	+1			decreasing
23	15°S	211	1	>6	x	23	dispersed
24	8°N	196	3	+2			decreasing
25	12°N	194	1	>6	x		dispersed
26	7°N	184	1	-2	x		stable
27	4°N	183	1	>6	x	26	disappeared
28	14°S	176	1	>6	x	27	decreasing
29	16°N	171	1	>6	x		dispersed
30	15°S	159	1	>6	x	30	decreasing
31	19°S	152	1	>6	x	28	decreasing
32	26°N	145	1	>6	x	32	decreasing
33	15°N	143	1	>6	x	31	decreasing
34	10°N	134	1	>6	x	33	decreasing
35	10°S	132	3	>6			decreasing
36	24°N	124	1	>6	x	35	dispersed
37	11°N	103	3	+1			decreasing
38	14°N	103	1	>6	x		dispersed
39	15°N	103	2	+6			decreasing
40	15°S	92	1	>6	x		dispersed
41	7°S	70	2	>6			decreasing
42	12°S	57	3	+2			decreasing
43	12°N	56	3	+4			decreasing
44	9°S	51	5	>6			decreasing
45	11°N	46	2	+5			decreasing
46	15°N	46	1	>6	x	48	dispersed
47	12°S	40	1	>6	x	49	dispersed
48	11°N	31	1	>6	x		dispersed
49	15°S	29	1	>6	x	51	decreasing
50	21°N	23	1	>6	x		decreasing
51	10°N	20	3	>6			decreasing
52	16°N	20	2	>6		52	decreasing
53	2°S	19	1	-4	x		stable
54	25°S	18	1	>6	x	56	decreasing
55	7°S	14	5	+4			decreasing
56	15°N	13	1	>6	x		decreasing
57	4°S	12	1	>6	x	57	disappeared
58	7°N	6	2	>6			disappeared
59	24°S	3	1	>6	x	56	dispersed
60	15°N	0	1	>6	x		decreasing

SYNOPTIC SOLAR MAP

CARRINGTON ROTATION 1726
SEPTEMBER 4 – OCTOBER 1, 1982

MEUDON OBSERVATORY



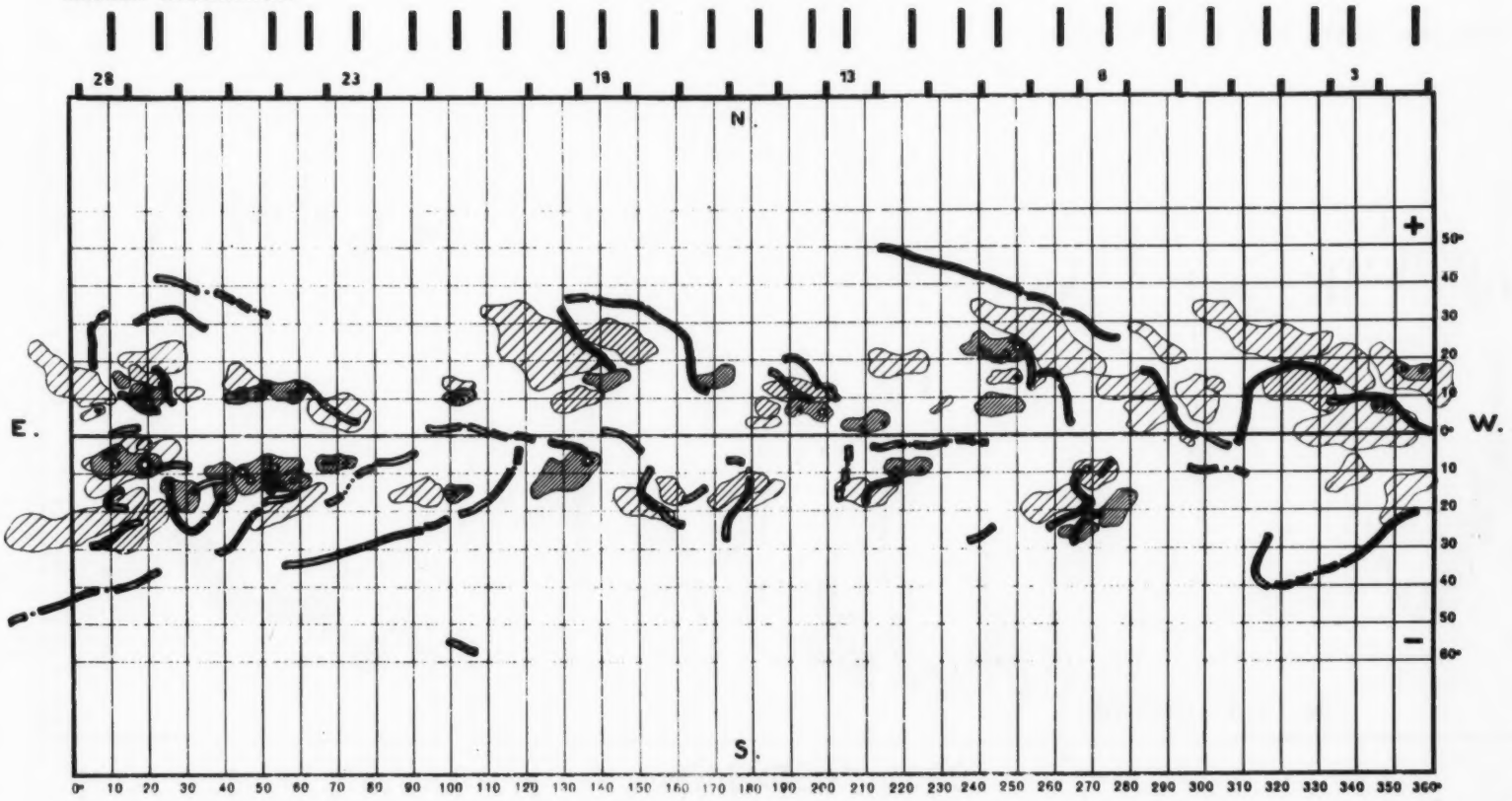
80
Misc
Sep 82

SYNOPTIC SOLAR MAP

CARRINGTON ROTATION 1727

OCTOBER 1 – 29, 1982

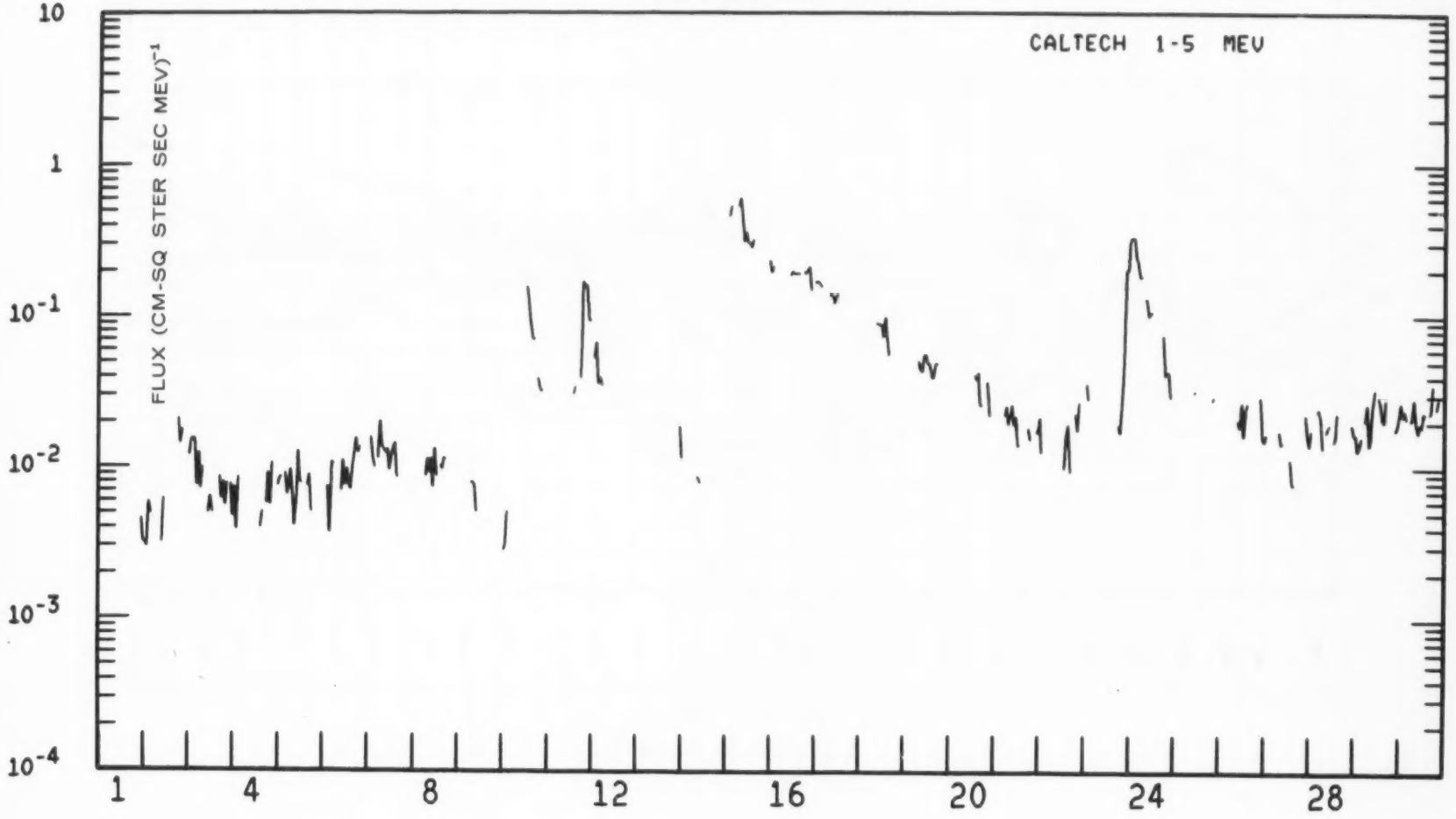
MEUDON OBSERVATORY



81
Misc
Oct 82

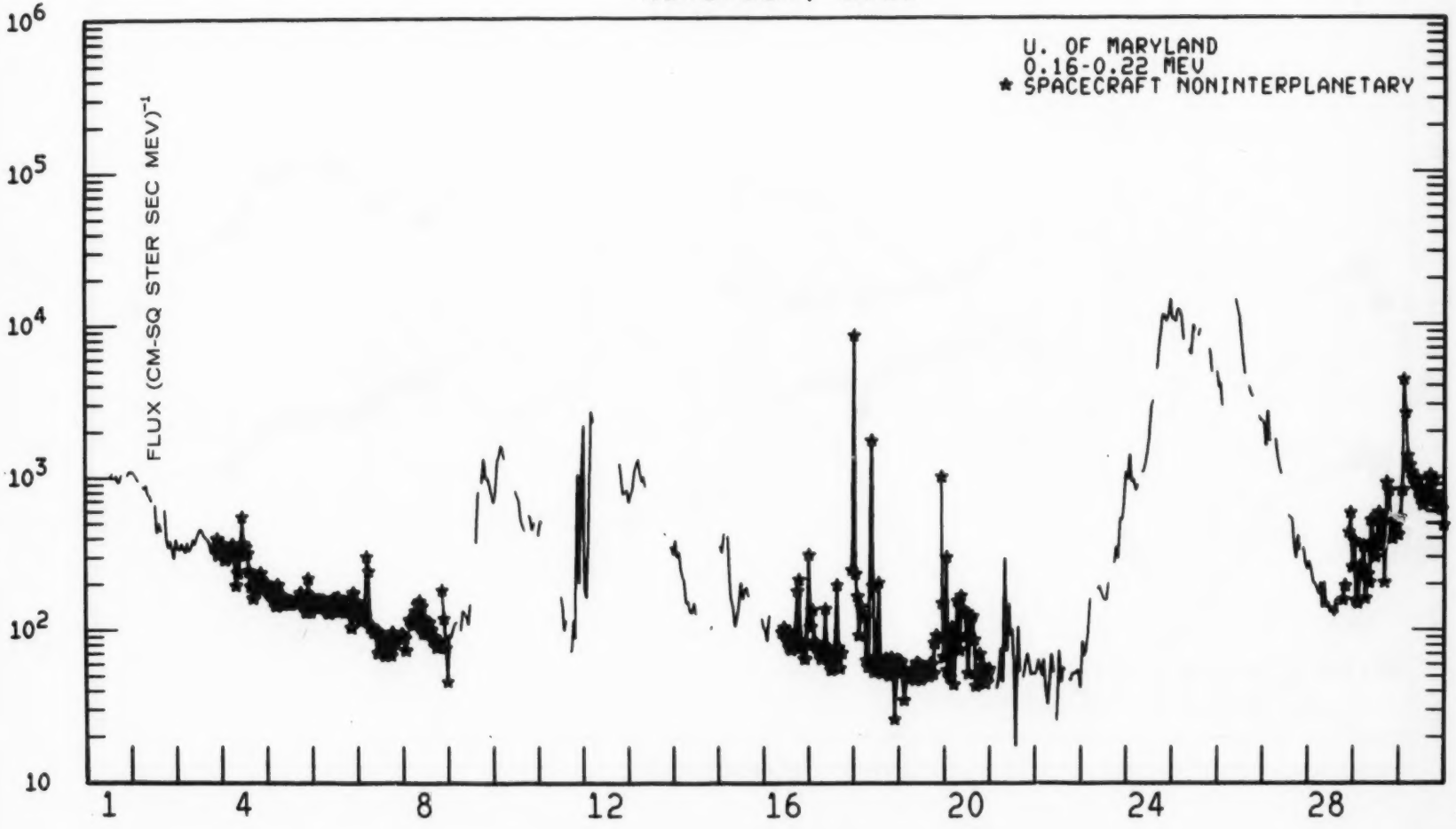
IMP 8 ELECTRONS

NOVEMBER, 1980



IMP 8 LOW ENERGY PROTONS

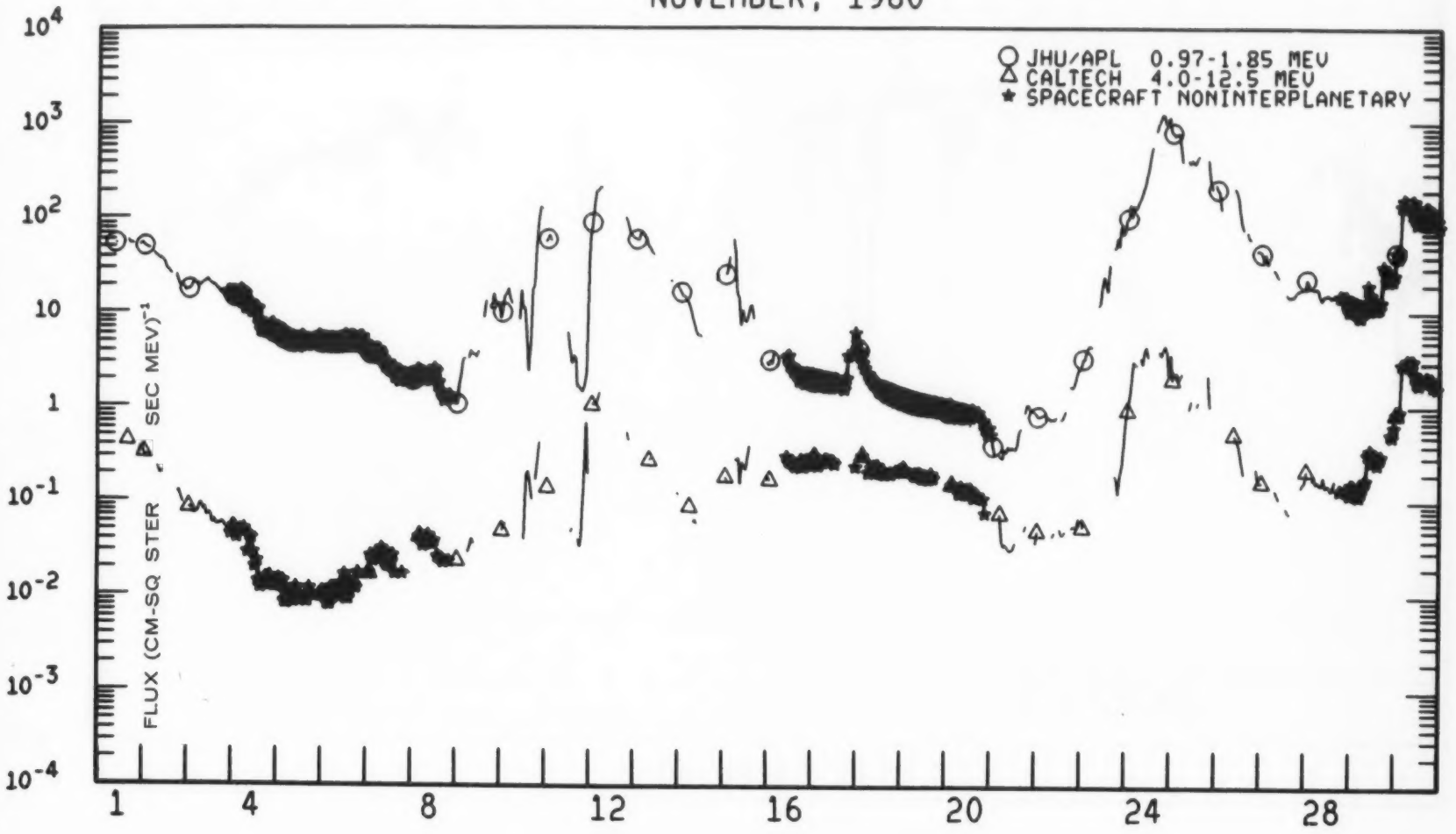
NOVEMBER, 1980



83
Misc
Nov 80

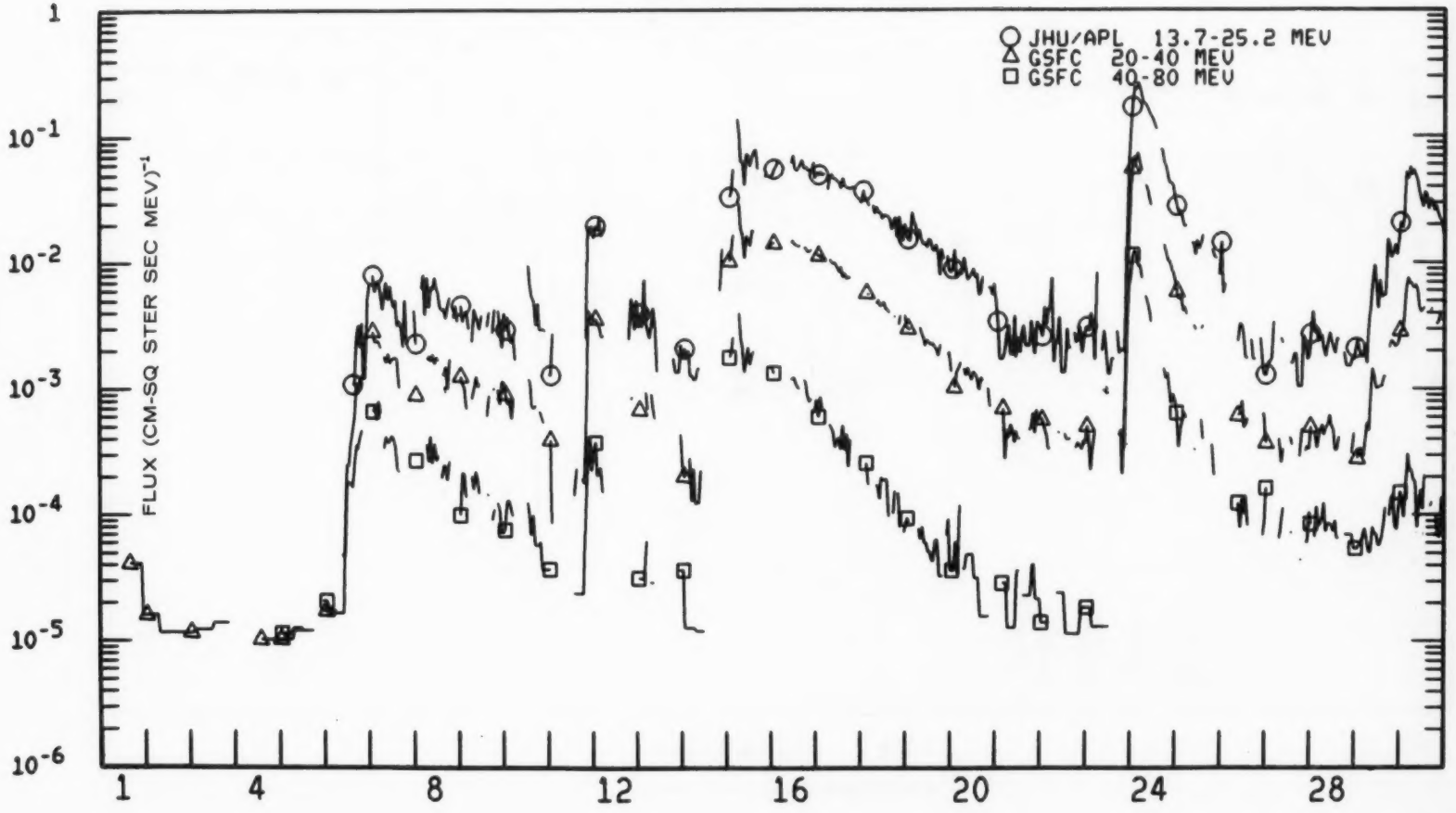
IMP 8 INTERMEDIATE ENERGY PROTONS

NOVEMBER, 1980



IMP & HIGH ENERGY PROTONS

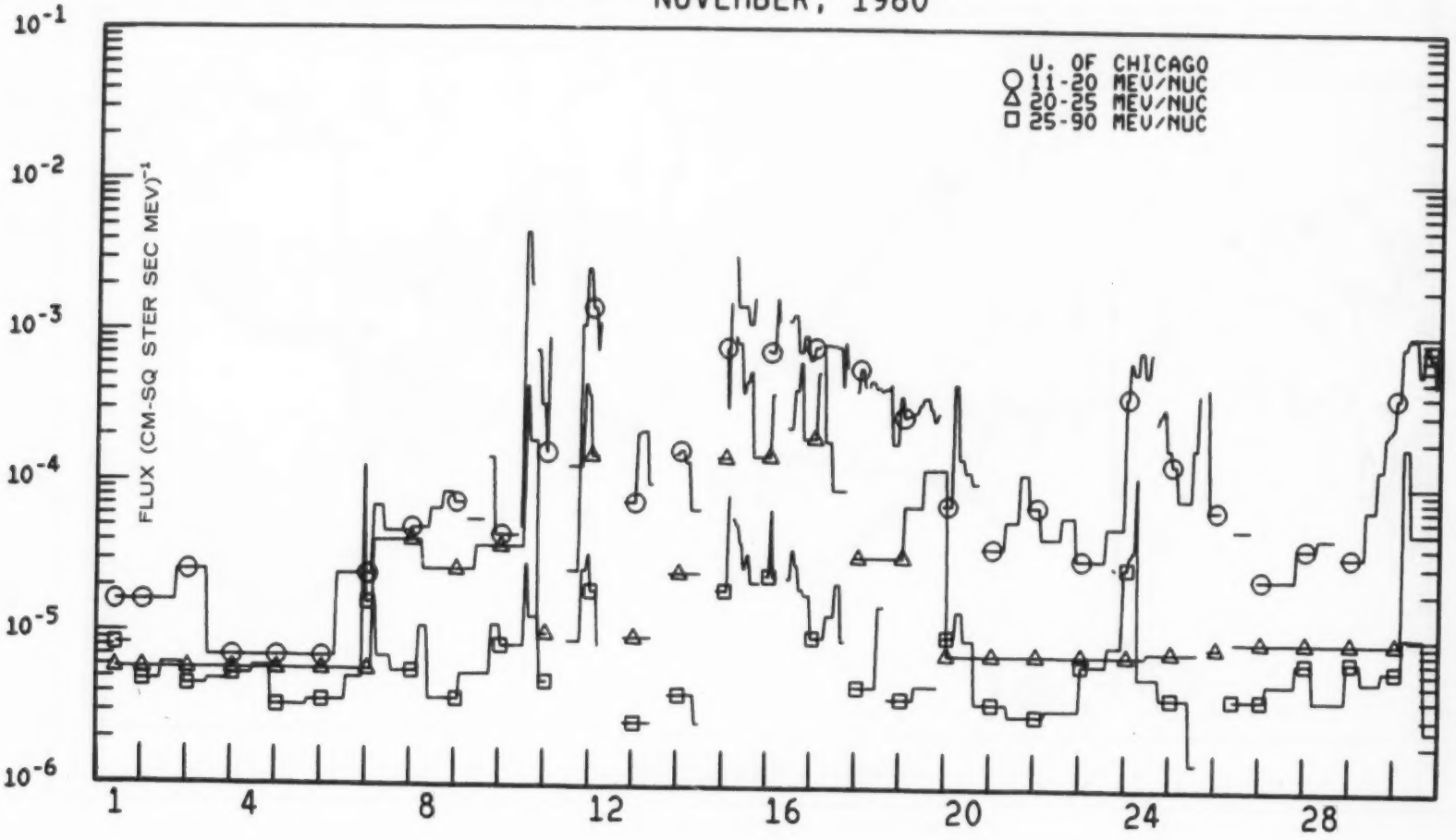
NOVEMBER, 1980



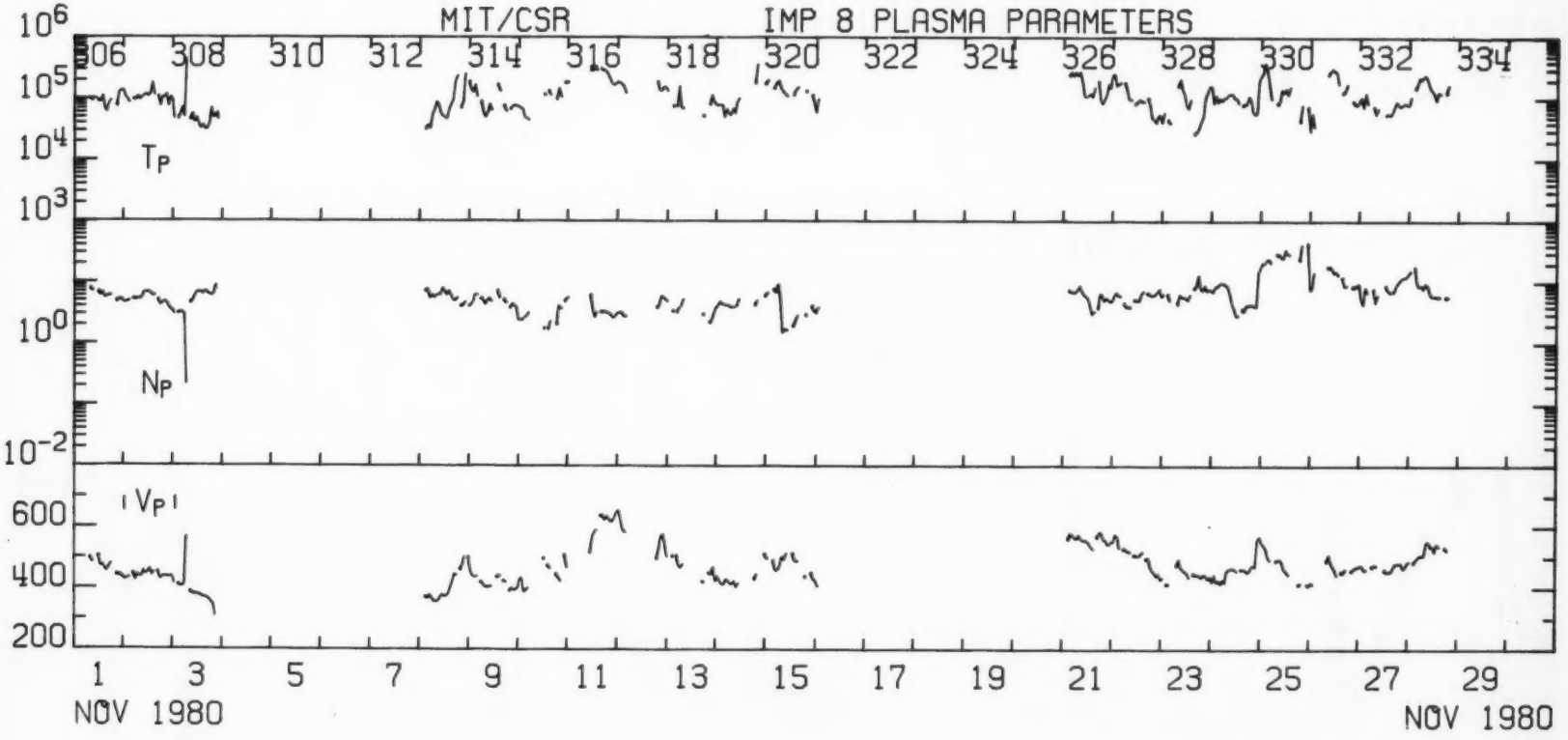
85
Misc
Nov 80

IMP 8 ALPHA PARTICLES

NOVEMBER, 1980



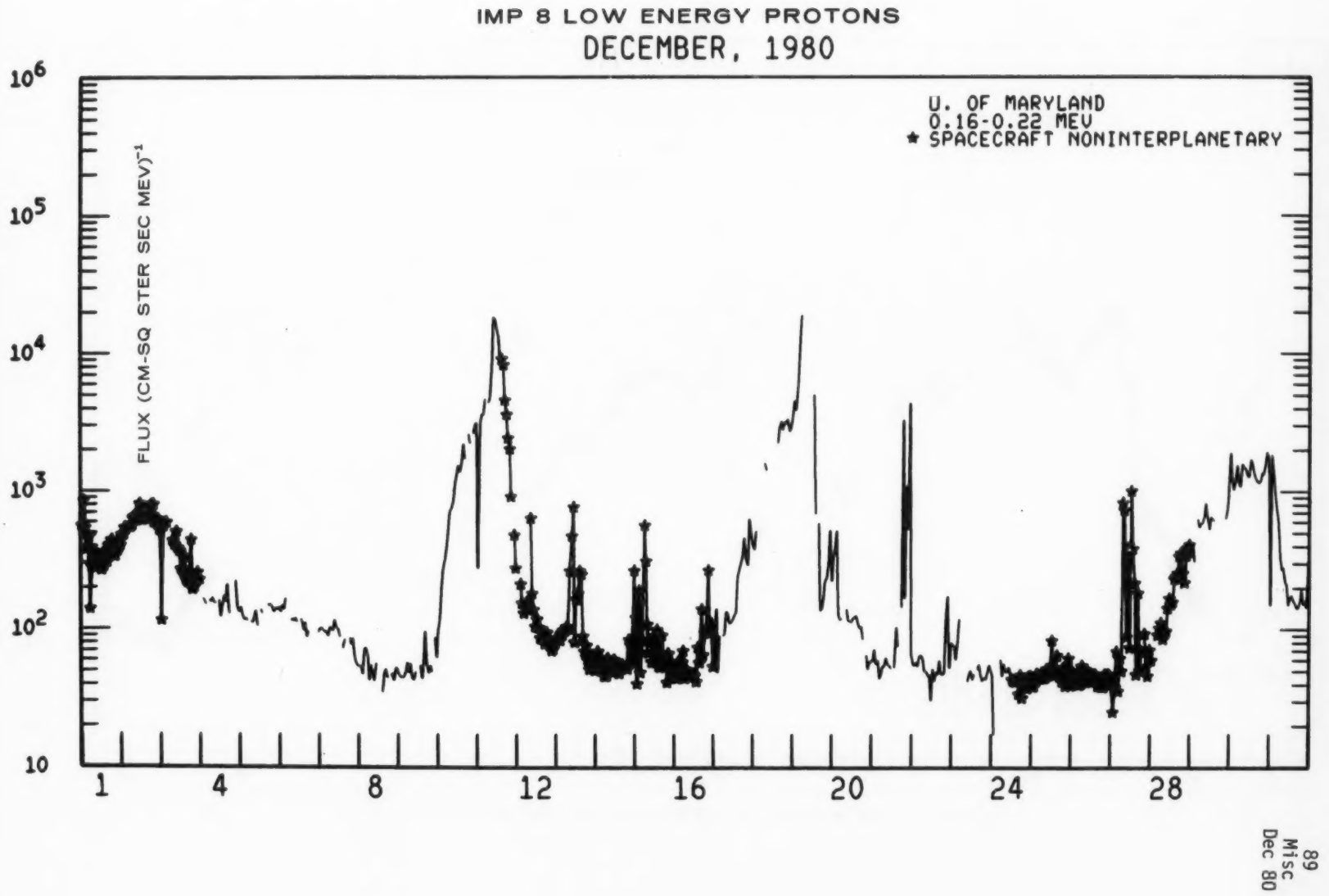
IMP 8 SOLAR WIND PLASMA



MIT 6/24/81 PRELIMINARY ONE-HOUR AVERAGES

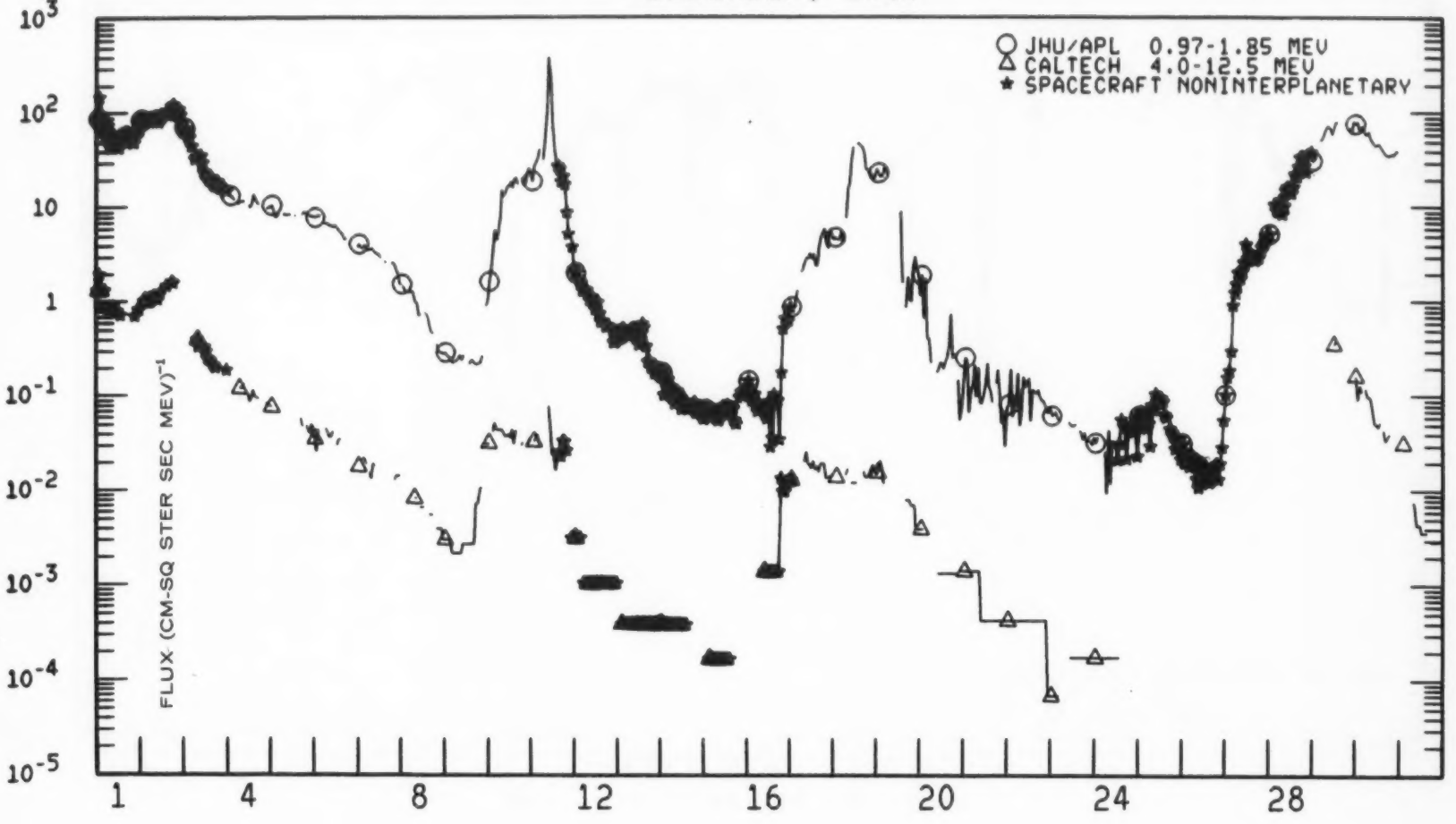
IMP 8 ELECTRONS

DECEMBER, 1980


IMP 8 LOW ENERGY PROTONS
DECEMBER, 1980
U. OF MARYLAND
0.16-0.22 MEV
★ SPACECRAFT NONINTERPLANETARY
FLUX (CM-SQ STER SEC MEV)⁻¹
10⁶
10⁵
10⁴
10³
10²
10
1
4
8
12
16
20
24
28
89
Misc
Dec 80

IMP 8 INTERMEDIATE ENERGY PROTONS

DECEMBER, 1980



IMP 8 HIGH ENERGY PROTONS

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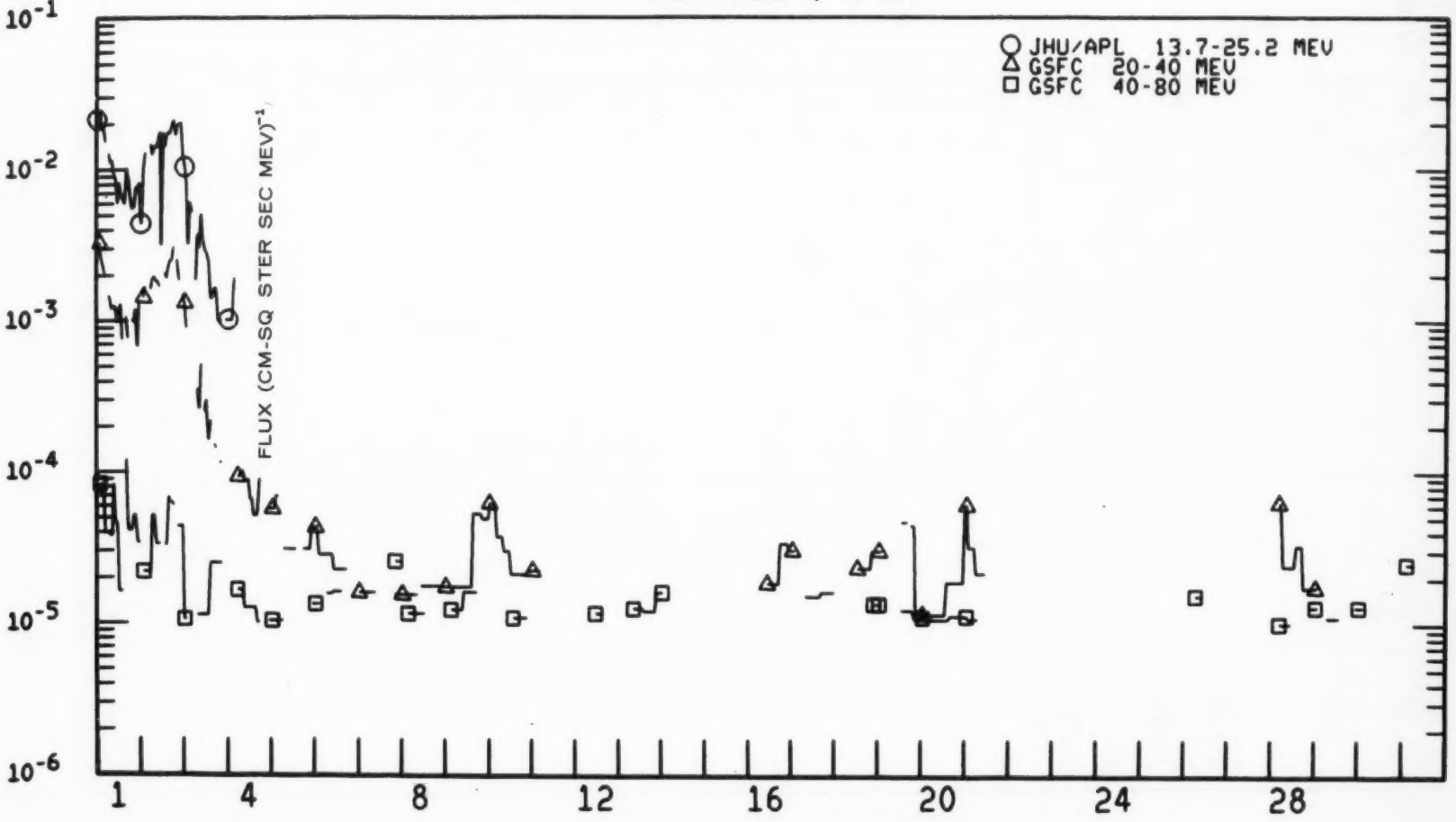
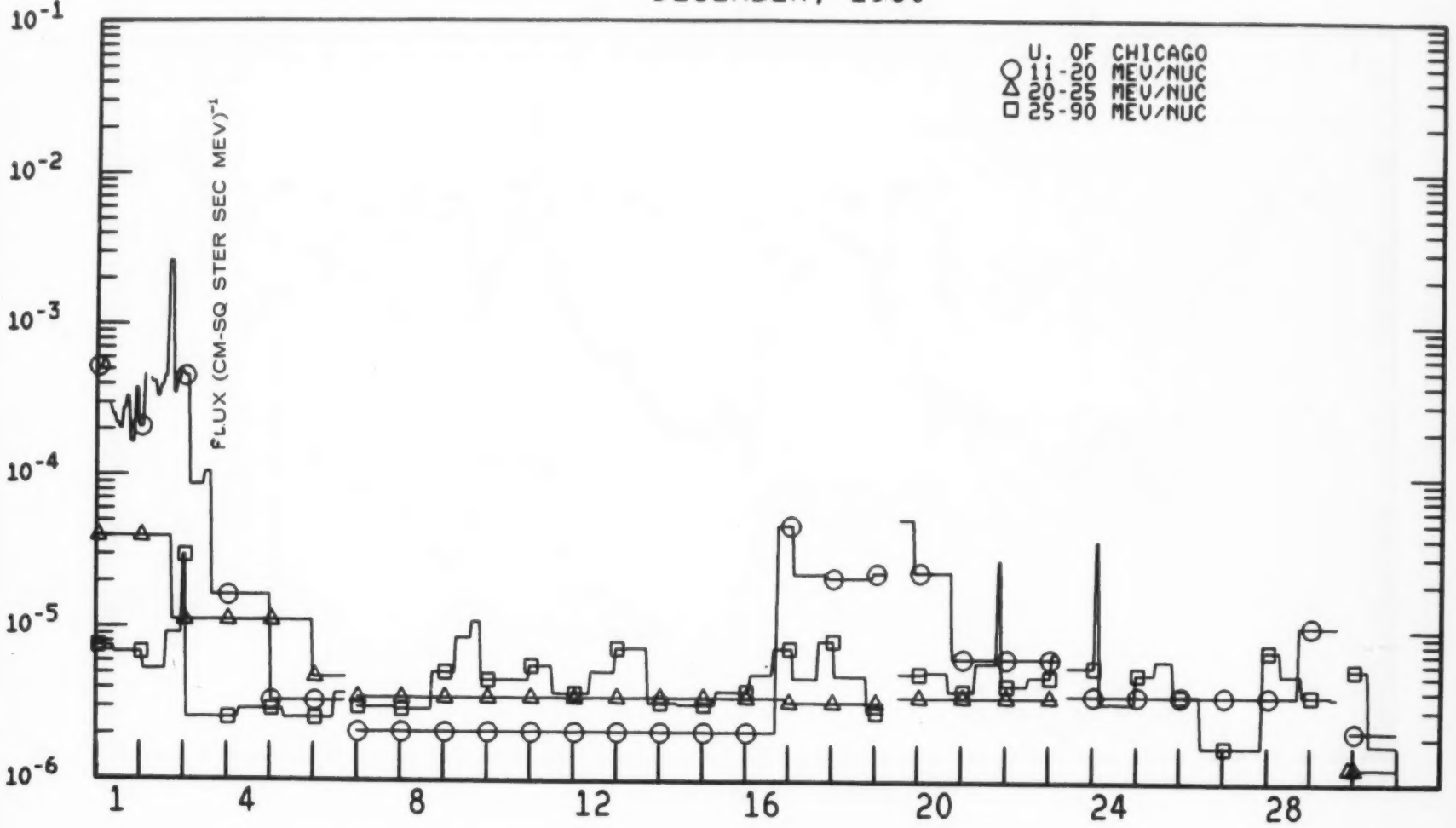


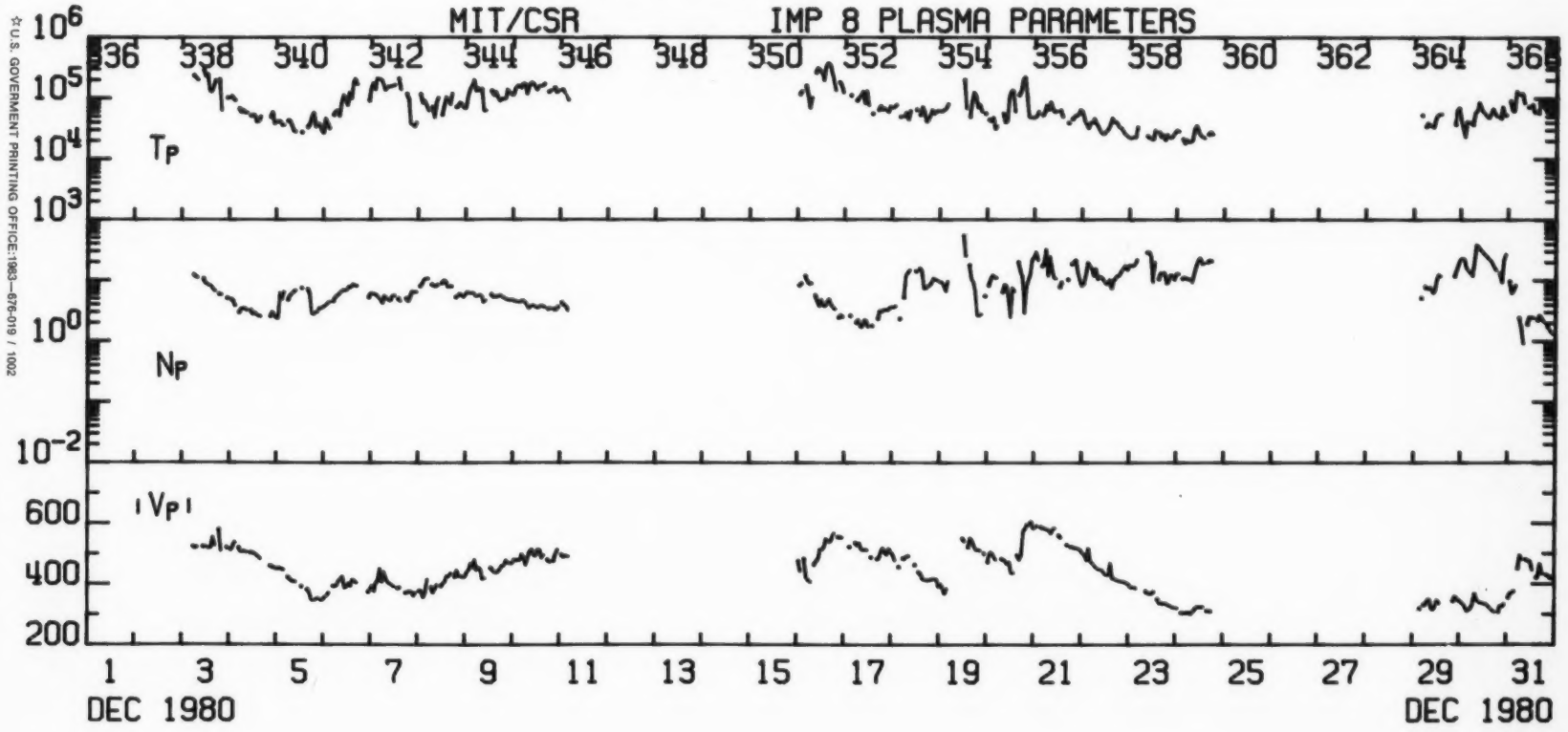
91
Misc
Dec 80

IMP 8 ALPHA PARTICLES

DECEMBER, 1980



IMP 8 SOLAR WIND PLASMA



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93
Misc
Dec 80